

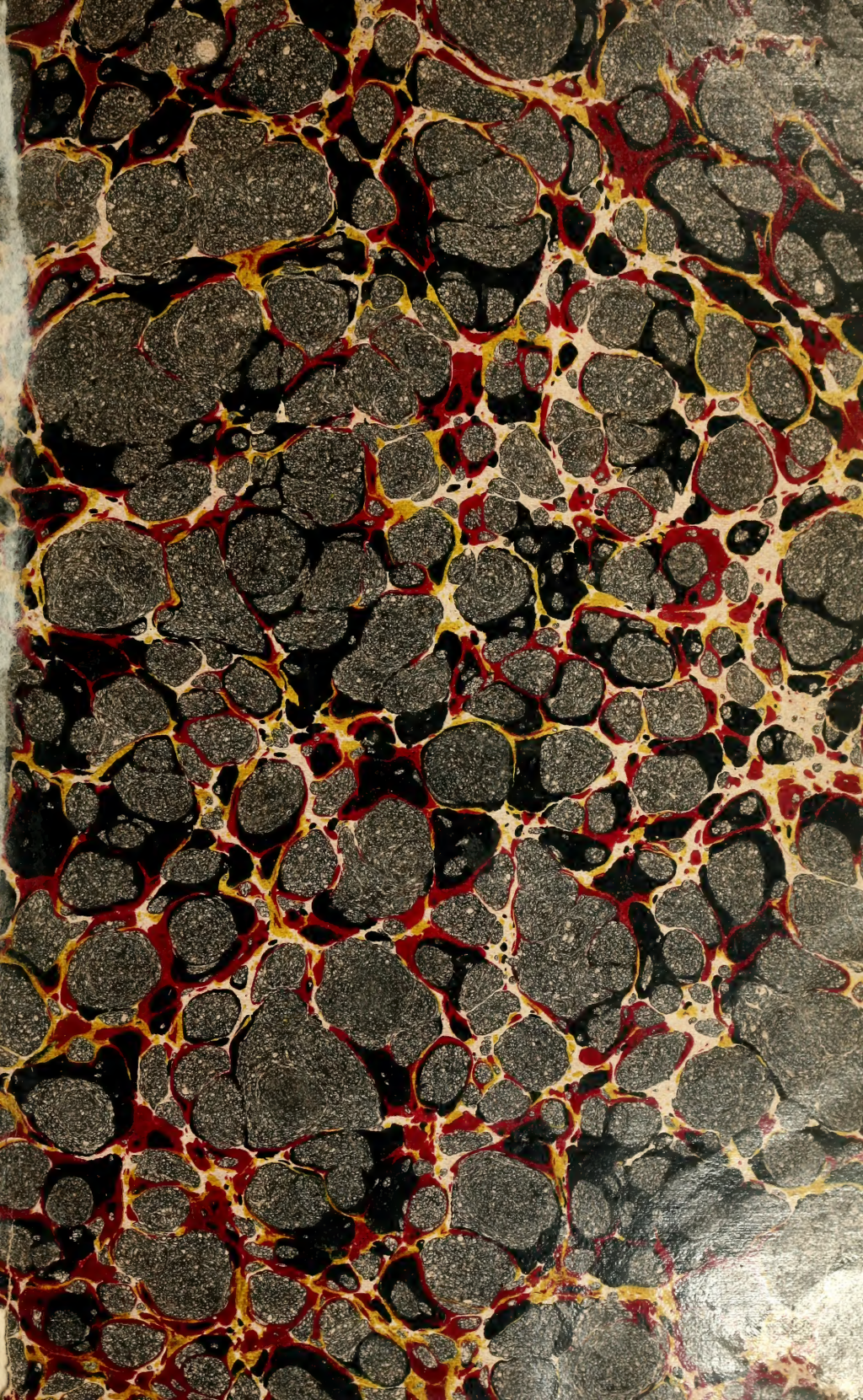


Coll.
in the City of New
Library.



GIVEN BY

Prof. N. L. Britton





No. 1

THE CHAUTAUQUA FLORA:

A CATALOGUE OF THE
PLANTS OF CHAUTAUQUA CO., NEW YORK,
NATIVE OR NATURALIZED;
EXTENDING THROUGH THE CRYPTOGAMOUS PLANTS,
TO THE END OF THE HEPATICÆ.

BY EDWARD S. BURGESS.

CLINTON, N.Y.,
1877.

QK
2.5
.08
v. 221

COLUMBIA
COLLEGE
LIBRARY

THE CHURCHMAN'S FLOP

PLANTING THE CHURCH

BY THE REV. J. H. B. B. B.

NEW YORK

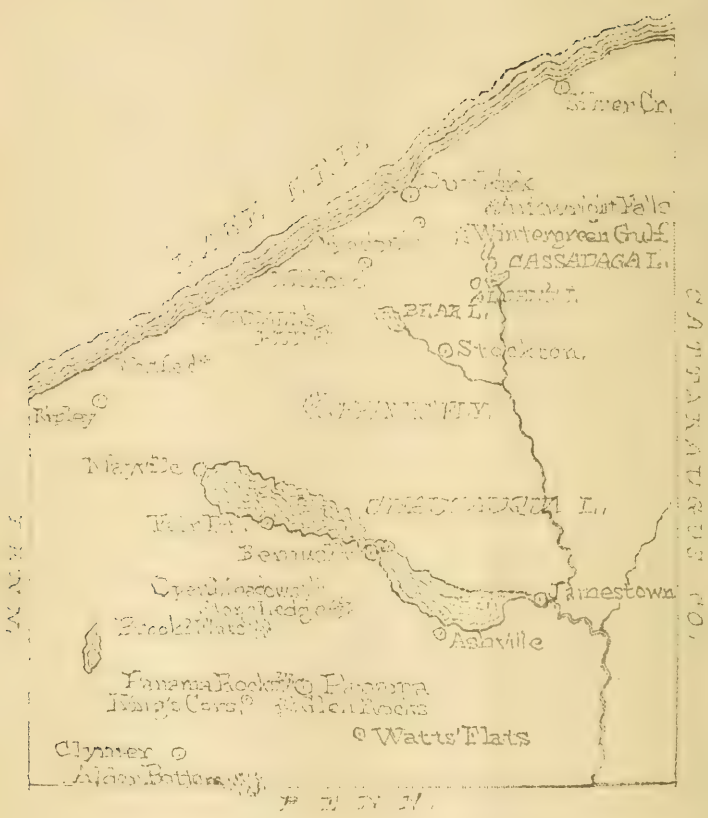
EXPLANATIONS.

In the following catalogue, plants which have been noticed only at one or two localities are followed by the names of those habitats. To those which seem uniformly diffused through the county, the words *abundant*, *common*, *occasional*, &c., have been added, to indicate the frequency of their occurrence.

All the plants in the succeeding pages have been collected by the author himself, excepting about 60 species, a fifth of the whole, for which he is indebted to the kindness of Mr. Melancthon Pettit of Fredonia, Dr. S. G. Peck of Panama, and others, whose names will be found immediately succeeding the habitat for which they are responsible. The author has determined in person those habitats which are not followed consecutively by some particular name as authority. To avoid possible uncertainties in identification, the species have been verified by comparison with the Sartwell Herbarium, now at Hamilton College, Clinton, N. Y., an herbarium which receives additional authority from its numerous specimens furnished and named by such botanists as Engelm., Torr., Curtis, Dewey, Carey, Oakes, Vasey, Torrey, Cline, Sullivant and Engelmann.

A map of Chautauque Co. on the following page, will explain the locality of the principal habitats mentioned.

100
 200
 300
 400
 500
 600
 700
 800
 900
 1000
 1100
 1200
 1300
 1400
 1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400
 2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000
 4100
 4200
 4300
 4400
 4500
 4600
 4700
 4800
 4900
 5000
 5100
 5200
 5300
 5400
 5500
 5600
 5700
 5800
 5900
 6000
 6100
 6200
 6300
 6400
 6500
 6600
 6700
 6800
 6900
 7000
 7100
 7200
 7300
 7400
 7500
 7600
 7700
 7800
 7900
 8000
 8100
 8200
 8300
 8400
 8500
 8600
 8700
 8800
 8900
 9000
 9100
 9200
 9300
 9400
 9500
 9600
 9700
 9800
 9900
 10000



Map of Chautauque County.

CHAUTAUQUA FLORA.

RANUNCULACEAE.

- | | |
|------------------------------------|--|
| 1. Clematis Virginiana, L. | Frequent. |
| 2. Anemone Virginiana, L. | Panama, Fredonia. |
| 3. " Pennsylvanica, L. | Fredonia, Silver Cr. |
| 4. " nemorosa, L. | Panama, Fredonia,
Bemus Point. |
| 5. Hepatica triloba, Chaix. | Occasional. |
| 6. " acutiloba, DC. | Frequent. |
| 7. Thalictrum dioicum, L. | Occasional. |
| 8. " Cornuti, Hook. | Frequent. |
| 9. Ranunculus divaricatus, Schrank | Dunkirk Beach. |
| 10. " abortivus, L. | Frequent. |
| 11. " recurvatus, Pers. | Panama. |
| 12. " Pennsylvanicus, L. | Panama, Fredonia. |
| 13. " repens, L. | Frequent. |
| 14. " acris, L. | Common. |
| 15. Colthba palustris, L. | Through the hills. |
| 16. Trollius laxus, Salisb. | Panama, Dr. Beck (1840?)
Jamestown, at Swede
Hill, Dr. G. Hazeltine, 1850? |
| 17. Coptis trifolia, Salisb. | Frequent. |
| 18. Aquilegia Canadensis, L. | L.E. Shore & Inland Lakes. |
| 19. " vulgaris, L. | Panama. |
| 20. Actæa spicata, L. | |
| v. rubra, Mx. | Panama. |
| " alba, Mx. | Panama, Fredonia, &c. |
| 21. Cimicifuga racemosa, L. | Lake Shore & Inland Lakes. |

CHAUTAUQUA FLORA.

2

MAGNOLIACEÆ.

22. *Magnolia acuminata*, L. Occasional.
 23. *Liriodendron tulipifera*, L. Frequent, esp. at Westport.

ANONACEÆ.

24. *Asimina triloba*, Dunal. Westfield, Torr. in Bot. State of N.Y.

MENISPERMACEÆ.

25. *Menispermum Canadense*, L. Lake Shore, Inland Lakes.

BERBERIDACEÆ.

26. *Berberis vulgaris*, L. Open Meadows, M. B. Carey.
 27. *Caulophyllum thalictroides*, Mx. Frequent.
 22. *Podophyllum peltatum*, L. Frequent.

NYMPHÆACEÆ.

29. *Brasenia peltata*, Pursh. Inland Lakes.
 30. *Nymphaea odorata*, Ait. Inland Lakes.
 31. *Nuphar advena*, Ait. Inland Ls, Open Meadows.

SARRACENIACEÆ.

32. *Sarracenia purpurea*, L. Steepleton (at Lake L.)
 Alder's L., Randall's Fly,
 & Francis' Fly) also at
 Alder Bottom on Paline.

PAPAVERACEÆ.

33. *Chelidonium majus*, L. Chaut. L.
 34. *Sanguinaria Canadensis*, L. Occasional.

FUMARIACEÆ.

35. *Dicentra Cucullaria*, DC. Occasional.
 36. " *Canadensis*, DC. Occasional.

CRUCIFERÆ.

37. *Nasturtium pubescens*, DC. Chaut. L., Fredonia.
 38. " *Armoracia*, Fries. Panama, Fredonia.
 39. *Dentaria diphylla*, L. Frequent.
 40. " *laciniata*, Muhl. Fredonia, Mr. Percit.

41. *Cardamine rhomboidea*, DC. Occasional.
 42. " *hirsuta*, L. Common.
 43. *Arabis lyrata*, L. Fredonia.
 44. " *hirsuta*, Scopoli. Duar Lighthouse Pt.
 45. " *laevigata*, DC. Silver Cr.; Fredonia, Ratin.
 46. *Turritis alba*, L. Fredonia, Mr. Pettit.
 47. *Barbarea vulgaris*, F. Bronn. Common.
 48. *Glycyrrhiza officinalis*, Scopoli. Fredonia.
 49. *Sinapis nigra*, L. Occasional.
 50. *Lepidium Virginicum*, L. Lake Erie Shore.
 51. *Capsella Bursa-pastoris*, Mench. Everywhere.
 52. *Cakile Americana*, Nutt. Mouth of Canada-way Cr.
 near Dunkirk, Mr. Pettit.

CAMPARIDACEAE.

53. *Polanisia graveolens*, Raf. Dunkirk, Silver Cr.

VIOACEAE.

54. *Viola rotundifolia*, Mx. Frequent.
 55. " *blanda*, Willd. Occasional.
 56. " *cucullata*, Ait. Abundant.
 57. " *villosa*, Nutt. Fredonia, Mr. Pettit.
 58. " *recurva*, Pursh. Panama, Open Meadows,
 Fredonia Cemetery.
 59. " *Muhlenbergii*, Torr. Fredonia, Mr. Pettit.
 60. " *Canadensis*, L. Frequent.
 61. " *putrescens*, Ait. Stone Ledge, Open Meadows.
 " " *vericarpa*, Nutt. Frequent.
 " " *viscabiuscula*, T. & G. Panama, Fredonia.

DROSERACEAE.

62. *Drosera rotundifolia*, L. Stockton (at Alden's L.,
 Randall's Fly and
 Francis' Fly.)

HYPERICACEÆ.

63. *Hypericum perforatum*, L. Common.
 64. " *corymbosum*, Muhl. Occasional.
 65. " *mutilum*, L. Common.
 66. *Elodea Virginica*, Nutt. 2d Lake at Cassadaga.
 Fredonia, Mr. Pettit.
 67. " *petiolata*, Pursh. Jamestown Alpaca Trce.

CARYOPHYLLACEÆ.

68. *Saponaria officinalis*, L. Panama, Fredonia.
 69. *Silene stellata*, Ait. Bemus Pt.
 70. " *antirrhina*, L. Fredonia.
 71. " *noctiflora*, L. Fredonia, Panama.
 72. *Lychnis Githago*, Lam. Occasional.
 73. *Stellaria media*, Swartz. Everywhere.
 74. " *longifolia*, Muhl. Fredonia, Panama.
 75. *Cerastium viscosum*, L. Common.
 76. *Spargula arvensis*, L. Panama.

PORTULACACEÆ.

77. *Portulaca oleracea*, L. Common.
 78. *Claytonia Caroliniana*, Mx. Common.

MALVACEÆ.

79. *Malva rotundifolia*, L. Fredonia.
 80. " *sylvestris*, L. Panama.
 81. " *moschata*, L. Frequent.
 82. " *drapa*. Panama.
 83. *Abutilon Avicennae*, Gertn. Panama, Ashville.
 84. *Hibiscus Trionum*, L. Panama.

TILIACEÆ.

85. *Tilia Americana*, L. Frequent.

LINACEÆ.

86. *Linum Virginianum*, L. Chasler, Dr. Peck.
 87. " *catenifolium*, L. Silver Cr.

GERANIACEAE.

88. *Geranium maculatum*, L. Lake Shore & Inland Lakes.
 89. " *Robertianum*, L. Fredonia.
 90. *Impatiens pallida*, Nutt. Chiefly southward.
 91. " *fulva*, Nutt. Common.
 92. *Oxalis acetosella*, L. Frequent.
 93. " *stricta*, L. Common.

ERICACEAE.

94. *Asteriscus juncifolius*, Willd. & Nutt. L.

RUTACEAE.

95. *Zanthoxylum Americanum*, Mill. Panama.

SIMARUBACEAE.

96. *Ailanthus glandulosus*, Desf. Sredman.

ANACARDIACEAE.

97. *Rhus typhina*, L. Frequent.
 98. " *venenata*, DC. Fredonia, Mr. Pettit.
 99. " *Toxicodendron*, L. Fredonia.
 " *copallina*, Torr. Common.

VITACEAE.

100. *Vitis labrusca*, L. Fredonia.
 101. " *æstivalis*, Mx. Fredonia.
 102. " *cordifolia*, Mx. Lake Shore & Inland Lakes.
 103. *Ampelopsis quinquefolia*, Mx. Frequent.

RHAMNACEAE.

104. *Rhamnus alatifolia*, L'Her. Panama, Fredonia Dept.
 Alder Bottom.

CELASTRACEAE.

105. *Celastrus scandens*, L. Lake Shore & Inland Lakes.
 106. *Thornyus styrenifolius*, Jacq. Fredonia, 250 ft. Minor.
 107. " *Americanus*, L.
 " *obovatus*, Z & G. Panama. Winter-green. Gulf (Rimiret)

6. CHAUTAUQUA FLORA.

SAPINDACEÆ.

108. *Staphylea trifolia*, L. Fredonia.
 109. *Acer spicatum*, Lam. Frequent.
 110. " *saccharinum*, Wang. Chiefly southward.
 111. " *dasycarpum*, Ehrhart. Chaut. & Panama.
 Fredonia.
 112. " *rubrum*, L. Frequent.

POLYGALACEÆ.

113. *Polygala sanguinea*, L. Panama. Clymes, La. Hok.

LEGUMINOSÆ.

114. *Trifolium pratense*, L. Abundant.
 115. " *repens*, L. Everywhere.
 116. *Melilotus alba*, Lam. Occasional.
 117. *Robinia Pseudacacia*, L. Panama.
 118. " *hispida*, L. Fredonia.
 119. *Artragalus Canadensis*, L. Lake Shore, Mr. Pettit.
 120. *Desmodium nudiflorum*, DC. Lake Shore.
 121. " *acuminatum*, DC. Lake Shore, inland lakes.
 122. " *Canadense*, DC. Fredonia.
 123. " *rigidum*, DC. Chaut. L.
 124. *Vicia Americana*, Muhl. Silver Cr.
 125. *Lathyrus maritimus*, Sigkew. Lake Shore, Mr. Pettit.
 126. " *palustris*, L. Lake Shore, Mr. Pettit.
 127. *Apion tuberosa*, Moench. Fredonia, Mr. Pettit.
 128. *Galactia mollis*, Ait. Fredonia, Mr. Pettit.
 129. *Amphicarpea monoica*, Nutt. Fredonia.
 130. *Cercis Canadensis*, L. Fredonia, Miss Richardson.
 131. *Gleditschia triacanthos*, L. Cordova.

ROSACEÆ.

132. *Prunus Pennsylvanica*, L. Through the Hills.
 133. " *Virginiana*, L. Panama.
 134. " *serotina*, Ehrhart. Frequent.

135. *Spiraea opulifolia*, L. Fredonia, Mr. Pettit,
Arkwright Falls.
136. " *obcordata*, L. Bear L., Watts Flats.
Open Meadows.
137. *Agrimonia Eupatoria*, L. Panama, Stockton.
138. *Poterium Canadense*, Gray. Open Meadows.
Under Bottom.
139. *Cleome album*, Gmelin. Panama, Fredonia.
140. " *Virginiana*, L. Panama,
141. " *strictum*, Ait. Panama, Silver Creek,
Wintergreen Gulf.
142. " *excole*, L. Panama, Fredonia.
143. *Waldsteinia fragarioides*, Tratt. Panama, Stone Ledge.
144. *Potentilla Norvegica*, L. Frequent.
145. " *Canadensis*, L. Panama, Open Meadows.
146. " *argentea*, L. Lake Shore.
147. " *Alba*, L. Dunkirk Beach.
148. *Fragaria Virginiana*, Ehrhart. Common southward;
149. " *vesca*, L. Panama.
150. *Dalibarda repens*, L. Panama & southward.
Jamestown cemetery,
Mrs. S. I. Hoag's Estate.
151. *Rubus odoratus*, L. Panama, Fredonia, Bemis Pt.
152. " *tristis*, Richardson. Panama, Fredonia.
153. " *strigosus*, Mx. Through the Hills.
154. " *occidentalis*, L. Through the Hills.
155. " *villosus*, Ait. Through the Hills.
156. " *hispidus*, L. Panama.
157. *Rosa Carolina*, L. Bear L.
158. " *blanda*, Ait. Under Bottom, Watts Flats.
159. " *rubiginosa*, L. Under Bottom.
160. *Rosa blanda*, Ait. Ripley, Mrs. Burgess.

8. CHAUTAUQUA FLORA.

161. *Cratægus coccinea*, L. Chaut. L. & southward.
 162. " *tomentosa*, L.
 " *v. pyrifolia*, Gray. Frequent.
 " *v. punctata*, Gray. Common.
 163. *Pyrus arbutifolia*, L. Panama.
 " *v. melanocarpa* Gr. Alder Bottom & Steadman.
 (at Alden's L., Randall's Fly, & Francis' Fly.)
 164. " *Americana*, DC. Panama Rocks.
 165. *Amelanchier Canadensis*, Tuck. Chaut. L. & southward.

LYTHRACEÆ.

166. *Lythrum hyssopifolia*, L. King's Cors. (Clymer).
 167. *Lesaea verticillata*, H.B.K. Chaut. L., Bear L., Alden's L.

ONAGRACEÆ.

168. *Epilobium angustifolium*, L. Freq. through the Hills.
 169. " *palustre*, L.
 " *v. lineare*, Gray. Cassadaga, Francis' Fly, & Randall's Fly.
 170. " *coloratum*, Muhl. Panama, Fredonia.
 171. *Gibbosaera biennis*, L. Common.
 172. " *fruticosa*, L. Chaut. L.
 173. " *pumila*, L. Panama.
 174. *Ludwigia palustris*, M. Frequent.
 175. *Circea alpina*, L. Common.
 176. " *luteriana*, L. Frequent.

HALORAGACEÆ.

177. *Myriophyllum spicatum*, L. Panama.

CRASSULACEÆ.

178. *Sedum Telephium*, L. King's Cors.
 179. *Penthorum sedoides*, L. Frequent.

SAXIFRAGACEÆ.

180. *Ribes cynosbati*, L. Frequent.

181. *Ribes lacustre*, Boiret. Panama, Watts' Flats,
Fredonia.
182. " *prostratum*, L'Hér. Panama, Ravine.
Brooks' Flats.
183. " *serotinum*, L. Panama, Fredonia.
184. " *cuterium*, L. Fredonia.
185. *Saxifraga Pennsylvanica*, L. Frequent.
186. *Tiarella diphylla*, L. Frequent.
187. " *canada*, L. Panama.
188. *Tiarella cordifolia*, L. Common.
189. *Thryoxylon* *splendens* *Anacardium*
Schweinitz. Frequent.

HAMAMELACEÆ.

190. *Hamamelis Virginica*, L. Panama, &c. frequent.

UMBELLIFERÆ.

191. *Hydrocotyle Americana*, L. Fair Point.
192. *Sanicula Canadensis*, L. Frequent.
193. " *Mariandica*, L. Panama, Fredonia.
194. *Daucus Carota*, L. Silver Cr., Fredonia.
195. *Heracleum lanatum*, Mx. Panama, Bemus Pt.,
Fredonia.
196. *Pastinaca sativa*, L. Panama, Fredonia.
197. *Archangelica atropurpurea*, Hoffm. Panama, Chaut. Is.
198. *Thaspium aureum*, L'Hér. Fredonia, Mr. Pettit.
199. *Zizia integrerrima*, DC. Dunkirk Park cliffs.
200. *Cicuta maculata*, L. Fredonia, Mr. Pettit.
201. " *bulbifera*, L. Open Meadows, Fredo-
nia, Chaut. Is.
202. *Carum Carui*, L. Panama, Fredonia.
203. *Oenanthe lineata*, L. Panama, Fair Pt.
204. *Cryptotaenia Canadensis*, DC. Panama, Fredonia.
205. *Oenanthe acris*, L. Near Panama.

206. *Osmorrhiza longistylis*, DC. Frequent.

207. " *brevistylis*, DC. Occasional.

ARALIACEÆ.

208. *Saxifraga spumosa*, L. Panama, Silver Cr.

209. " *racemosa*, L. Scarce.

210. " *discolor*, Mx. Harmony.

211. " *nudicaulis*, L. Harmony, Fredonia.

212. " *quinquefolia*, Gray. Panama, Fredonia.

213. " *trifolia*, Gray. Occasional.

CORNACEÆ.

214. *Cornus Canadensis*, L. Harmony.

215. " *florida*, L. L. E. Shore.

216. " *circinata*, L'Her. Fredonia, Mr. Pettit.
Silver Creek.

217. " *sericea*, L. Fredonia, Mr. Pettit.
Alder Bottom.

218. " *stolonifera*, Mx. Occasional.

219. " *paniculata*, L'Her. Bemus Pt., Concord.

220. " *stolonifera*, L. Occasional.

221. *Nyssa multiflora*, Wang. Fredonia.

CAMPANULACEÆ.

222. *Lonicera grata*, Aiton. Silver Cr.

223. " *parviflora*, Lam. Dunkirk Park cliffs.

224. " *hirsuta*, Eaton. Panama.

225. " *ciliata*, Muhl. Frequent.

226. " *caerulea*, L. Panama, Alder Bottom.

227. " *stolonifera*, Mx. Panama.

228. *Diervilla trifida*, Michx. Frequent among the hills.

229. *Tricostema perfoliatum*, L. Penns Pt.

230. *Sambucus pubens*, Mx. Throughout the hills.

231. " *Canadensis*, L. Throughout the hills.

231. *Heurisma nudum*, L. Frequent.
 " *uv. cassinoides*, Gray. Stockton.
 232. " *Lentago*, L. Fredonia, Mr. Pettit.
 " *Bethus* Pt.
 " *dentatum*, L. Through the Hills.
 235. " *acutifolium*, L. Frequent.
 236. " *pauciflorum*, Pylaie. Silver Creek.
 237. " *Opulus*, L. Frequent.
 238. " *lantandoides*, Mx. Frequent.
 " *Blackberry*.
 239. " *asprellum*, Mx. Fredonia, Mr. Pettit.
 " *Penus* Pt. Prof. Donaldson.
 " *trifidum*, L. Panama.
 " *...* Frequent.
 " *...* Frequent.
 " *...* Frequent.
 243. " *...* Through the Hills.
 244. " *lanceolatum*, Torr. Chart L., Fredonia.
 245. *Cephalanthus occidentalis*, L. Chart L., Bear L., Canada, Cr.
 246. *Mitchella repens*, L. Frequent.
 247. *Houstonia purpurea*, L. Frequent.
 " *...* Clark cliffs.
 " *...* Burgess.
 248. " *...* Fredonia, Mr. Pettit.

VALERIANACEÆ

249. *Tedia Paganorum*, Fl. G. "Works of Brandenburg,"
 Dr. Peck.

DIPSACACEÆ

250. *Dipsacus sylvestris*, Mill. Frequent.
 " *...* Frequent.
 251. *Vernonia noveboracensis*, Willd. Frequent.
 252. *Eupatorium purpureum*, L. Common southward.

212. *Eupatorium perfoliatum*, L. Common.
 214. " *ageratoides*, L. Panama, Fredonia.
 215. *Tussilago Farfara*, L. Fredonia, Arkwright.
 216. *Aster corymbosus*, Aiton. Fredonia.
 217. " *macrophyllum*, L. Fredonia, Mr. Pettit.
 218. " *cordifolius*, L. Fredonia, Panama.
 219. " *sagittifolius*, Willd. Fredonia.
 220. " *altissimus*, L. Occasional.
 221. " *paniculatus*, L. Fredonia.
 222. " *laevis*, L. Occasional.
 223. " *carneus*, Nees. Clymer, Dr. Peck.
 224. " *longifolius*, Lam. Fredonia, Cordova.
 225. " *punicus*, L. Occasional.
 226. " *paniculatus*, L. Frequent.
 227. *Trigeron Canadense*, L. Frequent.
 228. " *anatum*, Pers. Occasional.
 229. " *strigosum*, Muhl. Maryland.
 230. *Diplopappus umbellatus*, T. & G. Occasional.
 231. " *cornifolius*, DC. Panama.
 232. *Helianthus bicolor*, L. Panama.
 233. " *latifolia*, L. Occasional.
 234. " *caesia*, L. Fredonia.
 235. " *patula*, Muhl. Occasional.
 236. " *arguta*, Ait. Occasional.
 237. " *v. juncea*, Gray. Fredonia, Mr. Pettit.
 238. " *altissimus*, L. Panama, Fredonia.
 239. " *paniculatus*, L. Occasional.
 240. " *v. procera*, C. Gray. Occasional.
 241. " *gigantea*, Nutt. Occasional.
 242. *Inula Helenioides*, L. Occasional.
 243. *Polynonia Uvedalia*, L. Occasional.
 244. *Ambrosia clematisifolia*, L. Occasional.

283. *Xanthium strumarium*, L. Fredonia.
 284. *Heliopsis laevis*, Pers. Fredonia, Mr. Pettit.
 285. *Helianthus laciniata*, L. Occasional.
 286. " *hirta*, L. Common thro' the Hills.
 287. *Hepachys pinnata*, P. & G. "Dry soil, Chaut. Co., Sartwell in Gray's Manual, Lake Erie, Sartwell in his herb.
 288. *Helianthus giganteus*, L. Fredonia, Mr. Pettit.
 289. " *strumosus*, L. Chaut. Co.
 290. " *serotinus*, L. Silver Creek.
 291. " *trachelifolius*, Willd. Fredonia, Mr. Pettit.
 292. " *decapetalus*, L. Chaut. Co.
 293. " *tuberosus*, L. Panama, Fredonia.
 294. " *annuus*, L. Occasional.
 295. " *scaberrimus*, L. Common.
 296. " *connata*, Muhl. Fredonia, Mr. Pettit.
 297. " *serotinus*, L. Fredonia.
 298. " *serotinus*, L. Fredonia, P. & G.
 299. *Helianthus autumnalis*, L. Panama, Alder Bottom.
 300. *Maruta Crotula*, DC. Common.
 301. *Achillea millefolium*, L. Common.
 302. *Thalictrum flavum*, L. Common.
 303. *Tanacetum vulgare*, L. Frequent.
 304. *Artemisia Canadensis*, Mx. Common.
 305. " *Abcyinthium*, L. Elkhorn.
 306. *Gnaphalium decurrens*, Tros. Panama.
 307. " *polycephalum*, Mx. Panama, Chimer, Dr. Peck.
 308. " *diversifolium*, L. Common.
 309. *Antennaria margaritacea*, R. & P. Panama.
 310. " *plantaginifolia*, Hook. Occasional.
 311. *Erechtthites hieracifolia*, Raf. Common southward.
 312. *Seneccio aureus*, L. Frequent.

- 377 *Linaria vulgaris*, Mill. Panama, Fredonia.
Chiriquí, Peloria State Nat
Forest
378. *Scrophularia nodosa*, L. Chiriquí, Silver Cr.
379. *Collinsonia verna*, Nutt. Woods of Broken Straw,
Dr. Peck.
380. *Chelone glabra*, L. Panama & Barro Hills.
381. *Chelone glabra*, L. Common.
382. *Chelone glabra*, L. Frequent.
383. *Chelone glabra*, L. Panama, Azaville.
384. *Chelone glabra*, L. Panama.
385. *Chelone glabra*, L. Common.
386. *Chelone glabra*, L. Fredonia.
387. *Chelone glabra*, L. Panama, Fredonia.
388. *Chelone glabra*, L. Panama, Fredonia.
389. *Chelone glabra*, L. Panama, Fredonia.
390. *Verbena angustifolia*, L. Common.
391. *Verbena angustifolia*, L. Frequent.
392. *Pharyngia leptostachya*, L. Bomas Pt.
Chiriquí, Barro Hills.
393. *Peucedanum Canadense*, L. Bomas Pt.
394. *Peucedanum Canadense*, L. Common.
395. *Peucedanum Canadense*, L. Frequent.
396. *Peucedanum Canadense*, L. Panama, Fredonia.
397. *Lythrum Virginicum*, L. Fredonia, Panama.
398. *Lythrum Virginicum*, L. Occasional.
399. *Calamintha thymopodium*, Benth. Panama.
400. *Calamintha thymopodium*, L. Silver Cr. Barro Hills.
401. *Calamintha thymopodium*, L. Silver Cr., Fredonia, Panama.
402. *Collinsonia Canadensis*, L. Occasional.
403. *Monarda didyma*, L. Thorough the Hills.

404. *Monarda fistulosa*, L. Fredonia, Mr. Pettit.
 405. *Blorhilla ciliata*, Raf. Panama, Clymer.
 406. *Lophanthus scrophulariaefolius* Fredonia, Mr. Pettit.
 Benthama. Silver Creek.
 407. *Nepeta Cataria*, L. Common.
 408. " *Glechoma*, Benthama. Common.
 409. *Physalis virginica*, L. Panama, for cultivation.
 410. *Brunella vulgaris*, L. Frequent.
 411. *Scutellaria galericulata*, L. Cassataga, (Second Lake)
 Fredonia, Mr. Pettit.
 412. " *latiflora*, L. Occasional.
 413. *Galeopsis Tetrahit*, L. Frequent.
 414. *Stachys palustris*, L.
 " " *aspera*, Gray. Fredonia, Mr. Pettit.
 " " *glabra*, Gray. Panama.
 415. *Leonurus cardiaca*, L. Frequent.

BORRAGINACEÆ.

416. *Symphytum officinale*, L. Panama, Fredonia.
 417. *Mertensia Virginica*, DC. Prendergast Co., Dr. Peck.
 418. *Penstemon digitalis*, L. Fredonia, Mr. Pettit.
 419. *Cynoglossum officinale*, L. Common.
 420. " *diversus*, DC. Frequent.
 421. *Borrago officinalis*, L. Panama.

HYDROPHYLLACEÆ.

422. *Hydrophyllum Virginicum*, L. Panama, Fredonia, Fair Pt.
 423. " *Canadense*, L. Panama.
 424. " *apiculatum*, M. Fredonia, Mr. Pettit.

POLEMONIACEÆ.

425. *Polemonium reptans*, L. Panama, Hill Higher.
 426. *Phlox Carolina*, L. Frequent.
 427. " *pilosa*, L. Fredonia, Mr. Pettit.

COTYLEDONACEÆ.

428. *Calystegia sepium*, Arn. Panama, Fredonia.

429. *Cuscuta Arnovii*, Willd. Chautau.

RUBIACEÆ.

430. *Solanum dulcamara*, L. Panama, Fredonia.

431. " *algosum*, L. Fredonia.

432. *Physalis pubescens*, L. Fredonia, Mr. Pettit.

433. " *viscosa*, L. Fredonia, Silver Cr.

434. *Solanum elaeagnifolium*, L. Panama.

435. *Physalis peruviana*, L. Jamestown, Mrs. S. J. Thoug.

BENTHAMIACEÆ.

436. *Centropogon cruevianus*, Arn. Panama.

437. *Thymococcus trifolatus*, L. Panama, Fredonia.

APOCYNACEÆ.

438. *Apocynum androsaemifolium*, Panama, Fredonia.

439. " *daniellianum*, L. Fredonia, Mr. Pettit.

440. " *hypericifolium*, Gr. Fredonia, Mr. Pettit.

441. *Vinca minor*, L. Frequent (escaped).

ERICACEÆ.

442. *Pyrola asarifolia*, Fernald. Common.

443. " *phylicoides* Pursh. Common Et.

444. " *incarnata*, L. Frequent.

445. " *v. pulchra*, Gray, Fredonia, Mr. Pettit.

OLEACEÆ.

446. *Fraxinus Americana*, L. Frequent southward.

447. " *viridis*, Mx. f. Panama.

448. " *ambucifolia*, Lam. Chautau.

RUBIACEÆ.

449. *Azarum Canadense*, L. Occasional Abre Hills.

HYDRANGEACEÆ.

450. *Hydrangea decandra*, L. Chautau in the Hills.

474. *Dirca palustris*, L. Occasional.

ELEAGNACEAE.

475. *Shepherdia Canadensis*, Torr. Silver Cr., Dunklin.

SANTALACEAE.

476. *Comandra umbellata*, Nutt. Bennett, Dundick.

SAURURACEAE.

477. *Saururus cernuus*, L. Frequent (mouth of
Crawford Creek, McLean).

VERBACEAE.

478. *Cerastium* sp. Frequent, Cal.
Bear L.

CALYPTRODIACEAE.

479. *Callitriche* sp. Frequent.

EUPHORBACEAE.

480. *Euphorbia maculata*, L. Lake Shore.

481. " *hypericifolia*, L. Silver Creek.

482. " *Helioscopin*, L. Frequent, Silver Creek.

483. " *obtusata*, Torr. Frequent.

484. " *Cyparissias*, L. Frequent (except d.).

URTICACEAE.

485. *Urtica fulva*, Mx. Occasional.

486. " *Americana*, L. Common.

487. " *racemosa*, Thunb. Panama.

488. *Morus rubra*, L. Frequent, McLean.

489. " *alba*, L. Frequent.

490. " *nigra*, L. Frequent.

491. *Urtica dioica*, L. Frequent, McLean.

492. *Laportea Canadensis*, Pursh. Frequent.

493. *Pilea pumila*, Gray. Frequent.

494. *Boehmeria cylindrica*, Willd. Christ L., Silver Cr.,
McLean.

CHAUTAUQUA FLORA.

23

518. *Salix lucida*, Muhl. Frequent.
 519. " *pedicellaris*, Pursh. Francis' Fly.
 520. *Populus tremuloides*, Mx. Through the hills.
 521. " *grandidentata*, Mx. Brooks Flats; Cassadaga;
 Fredonia, Mr. Pettit.
 522. " *balsamifera*, L.
 " " var. *candicans*, Gray. Ashville, L. E. Shore.
 523. " *alba*, L. Fredonia.

CONIFERÆ.

524. *Pinus rigida*, Müller. Fredonia, Det. Soc. Arboretum,
 525. " *banksiana*, L. Fredonia.
 526. *Abies Canadensis*, Mx. Common.
 527. *Taxus baccata*, L. { Panama Rocks, Glen Rocks,
 " " var. *Canadensis*, Gray. { Cowslip Glades, Brooks Flats

ARACEÆ.

528. *Arisæma triphyllum*, Torr. Frequent.
 529. *Peltandra Virginica*, Raf. Chaut. L., Alden's L.
 530. *Calla palustris*, L. Alder Bottom (on Town line)
 531. *Symplocarpus foetidus*, Salisb. Frequent, esp. south.
 532. *Acorus Calamus*, L. French Cr., Panama,
 Fredonia.

TYPHACEÆ.

533. *Typha latifolia*, L. Frequent.
 534. " *angustifolia*, L. Panama.
 535. *Sparganium eurycarpum*, Eng. Chaut. L.
 536. " *flaccidum*, Hedeg. D. & J. Pond.
 537. " *simplex*, Hudson. Frequent.

LEMNACEÆ.

538. *Lemna minor*, L. Silver Cr., Chaut. L.
 539. " *polyrrhiza*, L. Bear L.

NALADACEÆ.

540. *Najas flexilis*, Rostk. Bemus Pt.
 541. *Potamogeton pectinatus*, L. In L. Erie at Silver Cr.

547. *Potamogeton pusillus*, L. Chaut. L.
 548. " *pauciflorus*, Pursh. Chaut. L.
 549. " *perfoliatus*, L. Chaut. L.
 550. " *praelongus*, Wulf. L. Erie at Silver Cr.
 551. " *altissimus*, Roth. Chaut. L., Bear L.
 552. " *heterophyllus*, Schreb. Chaut. L., Bear L.

ALISMACEAE.

550. *Scheuchzeria palustris*, L. Alden's L.
 551. *Alisma Plantago*, L.
 " " var. *Americanum*, Gray Silver Cr., Chaut. Out cr.
 552. *Sagittaria variabilis*, Engelma. Chaut. L., Bear L., Alden's L.
 553. " *simplex*, Pursh. Chaut. L.

HYDROCHARIDACEAE.

554. *Anacharis* *Canadensis*, (L.) Desf. L., Alden's L.
 555. *Vallisneria spiralis*, L. Chaut. L., Bear L.

ORCHIDACEAE.

556. *Orchis spectabilis*, L. Chaut. L., Alden's L.
 557. *Habenaria tridentata*, Hook. Alden's L.
 558. " *orbiculata*, Lindl. Stone Ledge, Bear L.
 559. " *Hookeri*, Lindl. Fredonia, Mr. Pettit.
 560. " *bracteata*, Torr. Fredonia, Mr. Pettit.
 561. " *hyperborea*, Lindl. Panama.
 562. " *dilatata*, Lindl. Panama.
 563. " *blephariglossa*, Lindl. Alden's L.
 564. " *blephariglossa*, Lindl.
 " " var. *holopetala*, Gray Alden's L.
 565. " *lacera*, Gray. Bear L.
 566. " *psycodes*, Gray. Alden's L.

DIOSCOREACEAE.

590. *Dioscorea villosa*, L. Chaut. L., Fredonia.

SMILACACEAE.

591. *Smilax rotundifolia*, L. Chaut. L., Panama.
 " " var. *quadrangularis* Sw. Fredonia.
 592. " *herbacea*, L. Panama, Fredonia,
 Chaut. L., Bear L.

TRILLIACEAE.

593. *Trillium erectum*, L. Panama, Chaut. L.,
 " " var. *album* Pursh. Panama, Fredonia.
 594. " *grandiflorum*, Salisb. Frequent.
 595. " *erythrorarpum*, Mx. Harmony, Fredonia.
 596. *Medeola Virginica*, L. Frequent.

LILIACEAE.

597. *Lilium difformis*, Michx. Panama, Fredonia.
 598. " *giganteum*, Dietrich, Fredonia.
 599. *Smilacina racemosa*, Desf. Frequent.
 600. " *stellata*, Desf. Panama, Fredonia.
 601. " *trifolium*, Desf. Randall's Fly.
 602. " *bifolia*, Ker. Common.
 603. *Clintonia borealis*, Raf. Stone Ledge, Panama Rock,
 Cassadaga L., Bear L., Randall's Fly.
 604. " *umbellata*, Torr. Stone Ledge, Panama Rock,
 Chaut. L.
 605. *Allium tricoccum*, Ait. Panama.
 606. " *Canadense*, Horn. Fredonia, Mr. Pettit.
 607. *Lilium Canadense*, L. Chaut. L., Bear L., Panama.
 608. *Erythronium Americanum*, Smith Frequent.
 609. " *albidum*, Nutt. Fredonia, Mr. Pettit.
 610. *Uvularia grandiflora*, Smith, Chaut. L.
 611. " *perfoliata*, L. Chaut. L., Stone Ledge.
 612. " *versifolia*, L. Chaut. L., Stone Ledge.

613. *Presarites lanuginosa*, Don. Frequent.

614. *Streptopus roseus*, Mx. Stone Ledge.

IRIDACEAE.

615. *Veratrum viride*, Ait. Frequent.

JUNCACEAE.

616. *Juncus* [unclear] [unclear] [unclear] Frequent.

617. *Juncus effusus*, L. Common.

618. *Juncus* [unclear] [unclear] [unclear] Frequent.

619. *Juncus* [unclear] [unclear] [unclear] Frequent.

620. *Juncus paradoxus*, E. Meyer. Panama Rocks.

621. *Juncus acuminatus*, Mx. Silver Cr.

622. *Juncus modestus*, L. Chaut. L.

623. *Juncus* [unclear] [unclear] [unclear] Frequent.

624. *Juncus bulbosus*, L. Fredonia, Mr. Farris.

625. *Juncus bufonius*, L. Panama.

POLEMONIACEAE.

626. *Polemonia* [unclear] [unclear] [unclear] Frequent.

627. *Schollera* [unclear] [unclear] [unclear] Frequent.

628. *Schollera* [unclear] [unclear] [unclear] pink-white variety.

629. *Schollera graminea*, Willd. Mayville.

CYPERACEAE.

630. *Cyperus diandrus*, Torr. Ashville, Silver Cr.

631. *Cyperus strigosus*, L. Chaut. L., L.E. Shore,

632. *Cyperus* [unclear] [unclear] [unclear] Panama.

633. *Cyperus* [unclear] [unclear] [unclear] Frequent.

634. *Dulichium spathaceum*, Pers. Chaut. Outlet, Pear L.

635. *Dulichium* [unclear] [unclear] [unclear] Frequent.

636. *Dulichium palustre*, R.Br. Common.

637. *Dulichium* [unclear] [unclear] [unclear] Frequent.

638. *Dulichium* [unclear] [unclear] [unclear] Frequent.

639. *Dulichium acicularis*, R.Br. Harmony.

662.	<i>Carex stricta</i> , Lam.	Cassadaga L.
	" <i>strictior</i> , Gray.	Bear L.
663.	<i>aquatilis</i> , Wahl.	Dunkirk Beach.
664.	<i>crinita</i> , Lam.	Frequent.
	" <i>morbida</i> , Gray.	Frequent.
	" <i>gynandra</i> , Gray.	Frequent.
665.	<i>hirsuta</i> , L.	Alden's L.
666.	<i>granularis</i> , Muhl.	Bandall's Fly.
667.	<i>granularis</i> , Muhl.	Arkwright.
668.	<i>pallascens</i> , L.	Dunkirk Beach.
669.	<i>grisea</i> , Wahl.	Dunkirk Beach.
670.	<i>formosa</i> , Dew.	Fredonia, Fredonia.
671.	<i>gracillima</i> , Schw.	Panama, Fredonia.
672.	<i>triceps</i> , Mx.	Panama, Fredonia, Kings Co.
673.	<i>platyphylla</i> , Carey.	Through the hills.
674.	<i>platyphylla</i> , Carey.	Fredonia.
675.	<i>ligulalis</i> , Willd.	Fredonia.
676.	<i>axilliflora</i> , Lam.	Panama.
677.	<i>axilliflora</i> , Dew.	Fredonia.
678.	<i>Hitchcockiana</i> , Dew.	Fredonia.
679.	<i>pedunculata</i> , Muhl.	(Cant. Co., Dr. Beck.)
680.	<i>pedunculata</i> , Muhl.	Occasional.
681.	<i>pedunculata</i> , Muhl.	Fredonia.
682.	<i>pedunculata</i> , Muhl.	Dunkirk Beach.
683.	<i>pedunculata</i> , Muhl.	Cassadaga L.
684.	<i>pedunculata</i> , Muhl.	Cassadaga L., Dunkirk Beach.
685.	<i>trichocarpa</i> , Muhl.	Bear L.
686.	<i>trichocarpa</i> , Muhl.	Panama, Fredonia.
687.	<i>Pseudo-Cyperus</i> , L.	Alden's L.
688.	<i>tentaculata</i> , Muhl.	Freq. south (rare on L. 3rd)
689.	<i>intumescens</i> , Budge.	Hare.

689. *Carex folliculata*, L. (Silver Cr.)
 690. " *lupulina*, Muhl. Fredonia.
 " *peruviana*, Michx. Common.
 691. " *retrofracta*, Schreb. Occasional.
 692. " *maritima*, L. Common.
 693. " *theropodica*, Willd. Common, Fredonia.

GRAMINEAE.

694. *Leersia oryzoides*, Swartz. Panama.
 695. *Echinochloa polystachya*, L. Frequent.
 696. *Agrostis peruviana*, Michx. Common, Panama.
 697. " *scabra*, Willd. Fredonia, Panama.
 698. " *vulgaris*, Willd. Fredonia, McTettit.
 699. " *alba*, L. Common.
 700. *Bambusa nana*, (Swartz) Hook. & Ar. Panama.
 701. *Dactylis glomerata*, L. Fredonia.
 702. *Calamagrostis Canadensis*, Beauv. Silver Cr., Panama.
 703. *Glyceria Canadensis*, Trin. Panama.
 704. " *aquatica*, Smith. Panama, Fredonia, Pettit.
 705. " *nervata*, Trin. Fredonia, McTettit.
 706. *Poa pratensis*, L. Panama.
 707. *Bromus secalinus*, L. Fredonia, Chaut. L.
 708. *Triticum repens*, L. Frequent.
 709. *Hordeum jubatum*, L. Silver Cr.
 710. *Elymus Canadensis*, L. Panama.
 711. " *striatus*, Willd.
 " *villosus*, Gray. Fredonia, McTettit.
 712. *Agropyron repens*, L. Common.
 713. *Danthonia spicata*, Beauv. Fredonia, McTettit.
 714. *Aristida setacea*, L. Occasionally escaped.
 715. *Ehalaris arundinacea*, L. Occasionally escaped.
 716. *Panicum glabrum*, Bouché. Fredonia.

721. *Lianum sempervirens*. Uncommon.
 722. " *clandestinum*. Frequent.
 " *pedunculatum*, Gr. Frequent.
 " *dictyonum*, L. Frequent, as are
 " *nitidum*. the varieties
 " *rectum*. mentioned.
 " *bartulatum*.
 " *crassifolium*.
 " *pubescens*.
 " *Diaphnum*, Gray. Frequent.
 723. *Metaria glauca*, Beauv. Common.
 724. " *viridis*, Beauv.

EGGERSIAEAE.

725. " *ovense*, L. Common.
 726. " *sylvaticum*, L. Frequent.
 727. " *limosum*, L. Chaut. L.
 728. " *hyemale*, L. Frequent.
 729. " *Frederica*, L. Frequent.

FILICES.

730. *Polypodium*. Frequent.
 731. *Struthiopteris Americana*, Willd. Panama, Beauv. Frequent.
 732. *Adiantum pedatum*, L. Frequent.
 733. *Pteris aquilina*. Frequent southward.
 734. *Phacopteris polypodioides*. Panama, Beauv. Glen Rocks.
 735. " *hexagonopterum*. Fair Pt., Frequent.
 736. " *Dryopteris*. Panama.
 737. *Woodsia Virginica*, Willd. Alden L.
 738. *Asplenium angustifolium*, L. Glen Rocks.
 739. " *thelypteroides*, L. Frequent southward.
 740. " *Filix-foemina*, L. Fr. Occasional.
 " *angustata*, Gr.

747. *Dicksonia punctulicarpa*, Hook. Common.
748. *Heudebia obtusa*, Torr. Panama Rocks.
749. *Leptopetalum* sp. *Heudebia* Panama. Westfield Ravine, Dr. Rich.
750. " " *dentata*, Hook. Panama.
751. *Leptopetalum* sp. *Heudebia* Panama. L. Oliver, Panama.
752. " *Novboracense*, Willd. Common.
753. " *oppositifolium*, Gr. Occasional.
754. " " *dilatatum*, Gr. Panama Rocks.
755. " " *Boottii*, Gr. Panama.
756. " " *intermedium*, Willd. Common.
757. " *cruciatum*, Gr. Occasional southward.
758. " *deltoideum*, Gr. Panama, Fredonia.
759. " *marginalis*, Swartz. Panama, Fair Pl. Fredonia.
760. " *obovatum*, Gr. Panama.
761. *Osmunda cinnamomea*, L. Panama.
762. " *obtusolobata*, Torr. Panama.
763. *Osmunda regalis*, L.
764. " " *spectabilis*, Gr. Frequent.
765. " *Claytoniana*, L. Occasional.
766. " *cinnamomea*, L. Common.
767. *Botrychium lunarioides*, Swartz Panama.
768. " " *obliquum*, Gr. Panama, Fredonia.
769. " " *dissertum*, Gr. Panama.
770. " *Virginicum*, Swartz. Occasional.
771. " " *gracile*, Gr. Occasional.
772. " *lanceolatum*, Gr. Glenhocks, Arkwright.
773. *Ophioglossum vulgatum*, L. Panama.
- LYCOPODIACEAE.
774. *Lycopodium obscurum*, L. Frequent.
775. " *complanatum*, L. Common, southward.

CHAUTAUQUA FLORA.

20

760. *clavatum*, L. Panama.

761. *complanatum*, L. Panama.

MUSCI.

762. *Sphagnum cymbifolium*, Dill. Panama.

763. *squarrosum*, Pers. Panama.

764. *acutifolium*, Ehrh. Panama, Fredonia.

765. *cuspidatum*, Ehrh. Panama, Fredonia.

766. *Phacum triquetrum*, Spruce Panama.

767. *S. Vivantii*, Schimp. Panama.

768. *Dicranum varium*, Hedw. Panama.

769. *heteromallum*, Hedw. Panama.

770. *orthocarpum*, Sull. Panama.

771. *flagellare*, Hedw. Panama Rocks, Chym.

772. *interruptum*, Br. & Sch. Panama Rocks.

773. *scoparium*, L.

774. *pallidum*, Sull. Common.

775. *palustre*, Brid. Panama Rocks.

776. *Schraderei*, Web. & Mohr. Panama Rocks.

777. *Ceratodon purpureus*, Brid. Everywhere.

778. *Leucobryum glaucum*, Bangs. Common.

779. *Fissidens bryoides*, Hedw. Occasional.

780. *taxifolius*, Hedw. Panama.

781. *Trichostomum tortile*, Schrad. Panama.

782. *pallidum*, Hedw. Frequent.

783. *Pottia truncata*, Br. & Sch. Fredonia.

784. *Tetraphis pellucida*, Hedw. Panama Rocks, Fredonia.

796. *Trichomanes clavellata*, Hook. Panama.
797. *Cheilanthes* " " " " " "
798. *" crispum*, Hedw. Panama.
799. *Schizidium apocarpum*, Presch. Panama Rocks.
800. *Trichomanes microcarpum*, Brid. Panama Rocks.
801. *Hedvigia ciliata*, Ekebl. Panama.
802. *Asplenium* " " " " " "
803. *"* " " " " " " "
804. *Polytrichum commune*, L. Common, especially on high ground.
805. *" fernianum*, Hedw. Panama.
806. *" juniperinum*, Hedw. Panama.
807. *"* " " " " " " "
808. *" pubescens*, Hedw. " "
809. *Aulacomnium palustre*, Schwagr. Occasional.
810. *" heterotichum*, Presch. Panama River, Fredonia.
811. *Bryum pyriforme*, Hedw. Frequent.
812. *" roseum*, Schreb. Occasional.
813. *"* " " " " " " "
814. *" bimum*, Schreb. Panama.
815. *Mnium affine*, Blund. Common.
816. *"* " " " " " " "
817. *" punctatum*, Hedw. Through the hills.
818. *" serratum*, Brid. Clymer.
819. *" rostratum*, Schwagr. Panama Rocks.
820. *"* " " " " " " "
821. *Bartramia* " " " " " " " "
822. *"* " " " " " " "
823. *Funaria hygrometrica*, Hedw. Panama.
824. *"* " " " " " " "
825. *"* " " " " " " "
826. *"* " " " " " " "

846. *Typha latifolia*, L. Panama.
 847. " *salicifolia*, Hoffm. Panama Rocks.
 848. " *lactum*, Brid. Panama.
 849. " *acuminatum*, Beauv. Panama.
 " " *setosum*, Sulliv. Occasional.
 " " *rupicola*, Sulliv. Panama.
 850. " *plumosum*, L. Panama.
 851. " *polymorphum*, Bryob. Panama, (Gardens.)
 852. " *lasiocarpa*, Beauv. Panama, (Gardens.)
 853. " *serpens*, Hedw. Panama Rocks.
 854. " *riparium*, Hedw. Panama Rocks.
 855. " *denticulatum*, L. Panama.

HEPATICA.

856. *Asplenium adnigrum*, L. Panama, Frederica.
 857. *Marchantia polymorpha*, L. Occasional.
 858. *Taxodium distichum*, L. Panama, Frederica.
 859. *Pegatella conica*, Corda. Panama, Frederica.
 860. *Geocalyx graveolens*, Nees. Frequent.
 861. *Isopetes macrospora*, L. Panama.
 862. " *heterophylla*, Nees. Panama.
 863. *Juncus macrocarpa*, L. Panama.
 864. " *setacea*, Weber. Panama.
 865. " *connivens*, Dickson. Panama.
 866. " *bicuspidata*, L. Panama.
 867. " *barbata*, Schreb. Panama.
 868. " *disticha*, L. Panama.
 869. " *exsecta*, Schmidel. Panama.
 870. *Scapania nemorosa*, Nees. Panama.
 871. *Plagiochila asplenoides*, Nees & M. Panama.
 872. " *gemma*, L. Panama.
 873. *Frullania Grayana*, Montagne. Panama.
 874. " *Phaeopogon*, L. Panama, Frederica.

CONTINUUM. 1891.

875. *Didymopanax platyphyllum*, Nees. *Didymopanax*.
 876. *Didymopanax angustifolium*, Nees. *Didymopanax*.
 877. " *Didymopanax*, Nees. *Didymopanax*.
 878. *Psychidium ciliare*, Nees. *Psychidium*.
 879. *Platigobryum trilobatum*, Nees. *Platigobryum*.
 880. " *deflexum*, Nees. *Platigobryum*.

Catalogue of the Phæogamous and Acrogenous Plants growing
without cultivation within five miles of Pine Plains,
Duchess Co., N. Y.

By LYMAN H. HOYSRADT.

October 19th, 1875.

RANUNCULACEÆ.

- Clematis verticillaris*, DC. ; vid. § 127, Vol. V. ; abundant on Risedorf Hill.—*C. Virginiana*, L. ; common.
Anemone cylindrica, Gray ; vid. § 127, Vol. V.—*A. Virginiana*, L. ; common.—*A. Pennsylvanica*, L. ; frequent.—*A. nemorosa*, L. ; quite common.
Hepatica triloba, Chaix. ; common.—*H. acutiloba*, DC. ; rare, vid. § 127, Vol. V.
Thalictrum anemonoides, Michx. ; very common.—*T. dioicum*, L. ; common.—*T. purpurascens*, L. ; common on Stissing Mt.—*T. Cornuti*, L. ; common.
Ranunculus multifidus, Pursh ; vid. § 127, Vol. V. ; but frequent elsewhere, Ten Eyck's and L. Smith's swamps, etc.—*R. abortivus*, L. ; common.—*R. sceleratus*, L. ; not frequent.—*R. recurvatus*, Poir. ; common.—*R. Pennsylvanicus*, L. ; common.—*R. fascicularis*, Muhl. ; common in our hilly woods and on the Mountain.—*R. repens*, L. ; common.—*R. bulbosus*, L. ; rare, in fields east of Trout Brook.—*R. aeris*, L. ; very common.
Caltha palustris, L. ; common.
Coptis trifolia, Salisb. ; common.
Aquilegia Canadensis, L. ; common.
Nigella Damascena, L. ; along fences of yards.
Actæa spicata, L. var. *rubra*, Michx. ; rather common, in our rich ravines.—*A. alba*, Bigel. ; common, more so than preceding.
Cimicifuga racemosa, Ell. ; rare near the village, very abundant on Winchell Hill.

MAGNOLIACEÆ.

- Liviodendron tulipifera*, L. ; frequent, especially along streams on southwest part of Mountain.

MENISPERMACEÆ.

- Menispermum Canadense*, L. ; common.

BERBERIDACEÆ.

- Berberis vulgaris*, L. ; naturalized along banks of Mud Pond.
Caulophyllum thalictroides, Michx. ; vid. § 127, Vol. V.
Podophyllum peltatum, L. ; vid. § 127, Vol. V. ; R. Ham's swamp meadow.

NYPHÆACEÆ.

- Brasenia peltata*, Pursh ; frequent, very abundant in Mud Pond, (*G. M. Wilber*) and in most of the others.
Nymphæa odorata, Ait. ; common.
Nuphar advena, Ait. ; very common.

SARRACENIACEÆ.

- Sarracenia purpurea*, L. ; quite common ; in Spruce Hole, &c.

PAPAVERACEÆ.

Papaver somniferum, L. ; about garden fences.

Chelidonium majus, L., common ; thoroughly naturalized in this section ; abundant along roadsides and even in several ravines of Little Stissing Mt.

Sanguinaria Canadensis, L. ; common.

FUMARIACEÆ.

Dicentra cucullaria, DC. ; common in all our rich woods and ravines.

Corydalis glauca, Pursh ; common. (May to October)—*C. aurea*, Willd. ; vid. § 127, Vol. V. ; on cliffs above Muggin House Rocks.

Fumaria officinalis, L. ; vid. § 127, Vol. V.

CRUCIFERÆ.

Nasturtium officinale, R. Br. ; rather common ; apparently indigenous in the secluded mountain streams.—*N. palustre*, DC. ; frequent ; *Var. hispidum*, common.—*N. Armoracia*, Fries ; rather common.

Deutaria diphylla, L. ; common.—*D. maxima*, Nutt. ; vid. § 127, Vol. V. ; woods by Silvernail Falls.—*D. laciniata*, Muhl. ; common.

Cardamine rhomboidea, DC. ; rather common.—*C. pratensis*, L. ; quite rare ; in Wappinger's Marsh, L. Smith's Walnut Swamp, &c.—*C. hirsuta*, L. ; frequent ;—*Var. sylvatica*, Gray, rather scarce on Little Stissing Mt.

Arabis lyrata, L. ; common.—*A. hirsuta*, Scop. ; vid. § 127, Vol. V. *A. levigata*, DC. vid. § 127, Vol. V.—*A. Canadensis*, L. ; vid. § 127, Vol. V. ; the three foregoing are all quite common, particularly on Stissing Mt.—*A. perfoliata*, Lam. ; not common, in fields under Stissing Mt.

Barbarea vulgaris, R. Br. ; very common.

Erysimum cheiranthoides, L. ; abundant along Shekomeko Ck. at base of Brigg's Hill.

Hesperis matronalis, L. ; escaping along fence borders of fields.

Sisymbrium officinale, Scop., very common.

Brassica Sinapistrum, Bois. ; a troublesome weed in fields.—*B. nigra*, Bois. ; common.—*B. campestris*, L. ; occasional.

Capsella Bursa-pastoris, Mœnch ; very common.

Lepidium Virginicum, L. ; very common.—*L. campestre*, L. ; rather scarce, but abundant in fields along east base of Attlebury Hill.

VIOLACEÆ.

Solea concolor, Ging. ; very abundant along east base of Risedorf Hill ; vid. § 109, Vol. V.

Viola rotundifolia, Michx. ; rare, on Mountain.—*V. lanceolata*, L. ; rare ; abundant around Grass Pond ; Thompson Pond.—*V. blanda*, Willd. ; very common.—*V. Selkirkii*, Goldie ; vid. § 127, Vol. V.—*V. cucullata*, Ait. ; very common ; *Var. palmata*, Gray, frequent.—*V. sagittata*, Ait. ; common.—*V. pedata*, L. ; rather scarce.—*V. canina*, L. *Var. sylvestris*, Rigel ; very common.—*V. pubescens*, Ait. ; common ; *Var. scabriuscula*, Torr and Gr. ; not rare.

CISTACEÆ.

- Helianthemum Canadense*, Michx.; rather common; abundant about summits of Stissing and Little Stissing.
Lechea major, Michx.; rather scarce; Stissing Mt.—*L. minor*, Lam.; common.

DROSERACEÆ.

- Drosera rotundifolia* L. quite common, back of Stissing Point, and elsewhere. *D. longifolia*, L.; rare; about Bingham Pond on Mountain.

HYPERICACEÆ.

- Hypericum pyramidatum*, Ait.; abundant in a dryish swamp along Roelif Jansen's Kill, above Silvernail Bridge, with *Blephilia hirsuta*.—*H. ellipticum*, Hook., in Wappingers Ck. Marsh (*G. M. W.* and *L. H. H.*)—*H. perforatum*, L.; very common.—*H. corymbosum*, Muhl.; common.—*H. mutilum*, L. very common.—*H. Canadense*, L., scarce about Pine Plains, but common a few miles away. *Var. major*, Gray is the common form; this is abundant in our peat-bogs, marshes, and on muddy shores of the ponds.—*H. Sarrothra*, Michx. common.
Elodes Virginica, Nutt.; common.

CARYOPHYLLACEÆ.

- Dianthus Armeria*, L.; not yet common.
Saponaria officinalis, L.; common.
Silene inflata, Smith; vid § 127, Vol V; becoming common.—*S. Pennsylvanica*, Michx.; common on slate hills north of Pine Plains.—*S. antirrhina*, L.; quite common.—*S. noctiflora*, L.; vid. §127, Vol. V., abundant in fields on Carpenter Hill.
Lychnis Githago, Lam.; now only seen in wheat fields.
Arenaria serpyllifolia, L.; common.—*A. lateriflora*, L. very common in many of the marshes.
Stellaria media, Smith; common.—*S. longifolia*, Muhl. and *S. borealis*, Bigel.; vid. §127, Vol. V; both rather rare.
Cerastium viscosum, L.; very common.—*C. nutans*, Raf.; scarce along some of the mountain marsh streams.—*C. arvense*, L.; common on Stissing Mts.
Sagina procumbens, L.; along mountain stream.
Anychia dichotoma, Michx.; common.
Scleranthus annuus, L.; common.
Mollugo verticillata, L.; rather common.

PORTULACACEÆ.

- Portulaca oleracea*, L.; common.
Claytonia Virginica, L.; quite rare; vid. § 127, Vol. V.

MALVACEÆ.

- Malva rotundifolia*, L.; common.—*M. moschata*, L.; vid. § 127, Vol. V.
Abutilon Avicennæ, Gærtn.; common along roadsides.

TILIACEÆ.

- Tilia Americana*, L.; common.

LINACEÆ.

Linum Virginianum, L.; not very common.—*L. usitatissimum*, L.; an escape; until about 25 years ago, this plant was grown largely in this section, for the manufacture of home-made linen.

GERANIACEÆ.

Geranium maculatum, L.; common.—*G. Carolinianum*, L.; scarce, only found on Stissing Mt.—*G. Robertianum*, L.; common.

Impatiens pallida, Nutt.; common in ravines, etc.; vid. § 127, Vol. V.—*L. fulva*, Nutt.; very common.

Oxalis violacea, L.; not common, but abundant in the few stations discovered.—*O. stricta*, L.; very common.

RUTACEÆ.

Xanthoxylum Americanum, Mill.; common.

SIMARUBACEÆ.

Ailanthus glandulosus, Desf.; running wild.

ANACARDIACEÆ.

Rhus typhina, L.; common.—*R. glabra*, L.; very common.—*R. copallina*, L.; common on Stissing Mt., particularly on the south end.—*R. venenata*, D. C.; common.—*R. Toxicodendron* L.; common.

VITACEÆ.

Vitis Labrusca, L.; common.—*V. astivalis*, Michx.; not common.

V. cordifolia, Michx.; common.

Ampelopsis quinquefolia, Michx.; very common.

RHAMNACEÆ.

Rhamnus catharticus, L. rare; vid. § 127. Vol. V.—*R. alnifolius*, L' Her.; abundant in our *Valerian* marshes and swamps.

Ceanothus Americana, L.; common.

CELASTRACEÆ.

Celastrus scandens, L.; common.

SAPINDACEÆ.

Staphylea trifolia, L.; common.

Æsculus Hippocastanum, L.; running wild.

Acer Pennsylvanicum, L.; common on Stissing Mt.—*A. spicatum*, Lam.; abundant in ravines of Stissing Mt. and Mount Ararat. *A. saccharinum*, Wang.; very common.—*A. dasycarpum*, Ehrh.; said to have been seen growing in some of our swamps and along our large streams, if so it must be rare, for I have never seen it growing wild anywhere in this region.—*A. rubrum* L.; very common.

POLYGALACEÆ.

Polygala sanguinea, L.; common.—*P. verticillata*, L.; common.—*P. ambigua*, Nutt.; scarce.—*P. Senega*, L.; common; abundant on the mountain, and in limestone fields and woods.—*P. paucifolia*, Willd.; common everywhere.

LEGUMINOSÆ.

Trifolium arvense, L.; common.—*T. pratense*, L.; common.—*T. repens*, L.; very common.—*T. agrarium*, L.; not very common.—*T. procumbens*, L.; common.

Melilotus officinalis, Willd.; quite common along roadsides.—*M. alba*, Lam.; more common than preceding species.

Medicago lupulina, L. ; very common in our fields and waste places. *Coronilla varia*, DC. ; well naturalized in two or three stations ; Eno lot ; vid. § 127, Vol. V.

Robinia Pseudacacia, L. ; common ; thoroughly naturalized.—*R. viscosa*, Vent. ; running wild.

Tephrosia Virginiana, Pers. ; vid. § 127, Vol. V.

Desmodium nudiflorum, DC. ; very common.—*D. acuminatum*, DC. ; common.—*D. rotundifolium*, DC. ; common in our rocky woods.—*D. cuspidatum*, Torr. & Gray. ; rather common ; Snake Hill, Stissing Mt., etc.—*D. Dillenii*, Darl. ; not common.—*D. paniculatum*, DC., quite common in our woods.—*D. Canadense*, DC. ; very common.—*D. ciliare*, DC. ; scarce ; on Little Stissing.—*D. Marilandicum*, Boott. ; not common ; near McIntosh Place, on Little Stissing.

Lespedeza procumbens, Michx. ; quite common ; Stissing Mt., Mill Hill, etc., vid. § 127, Vol. V.—*L. violacea*, Pers, and *varieties* ; common.—*L. hirta*, Ell. ; quite common.—*L. capitata*, Michx. ; common.

Vicia sativa, L. ; rather scarce ; in fields and along roadsides.

Lathyrus palustris, L. ; rare ; in swamps near Hot Ground, (*G. M. Wilber and L. H. H.*)

Apios tuberosa, Mœnch. ; common ; Thomas Meadow.

Amphicarpæa monoica, Nutt. ; common.

Baptisia tinctoria, R. Br. ; common.

Cassia Marilandica, L. ; not uncommon ; along Wappingers and Koelif Jansen's Creeks.

Gleditschia triacanthos, L. ; sparingly running wild.

ROSACEÆ.

Prunus Americana, Marshall ; common.—*P. pumila*, L. ; not scarce ; vid. § 127, Vol. V.—*P. Pennsylvanica*, L. ; decidedly common.—*P. Cerasus*, L. ; fully naturalized in the open borders of some woods and also in copses.—*P. Virginiana*, L. ; very common.—*P. serotina*, Ehr. ; common.

Spiræa salicifolia, L. ; very common.—*S. tomentosa*, L. ; very common in our bogs and marshes.

Agrimonia Eupatoria, L. ; common.

Geum album, Gmelin. ; common.—*G. Virginianum*, L. ; common, but less so than preceding.—*G. strictum*, Ait. ; very common ; vid. § 127, Vol. V.—*G. rivale*, L. ; not uncommon in some of our swamps and low meadows ; along Trout Brook, South Poughkeepsie R. R., etc.

Waldsteinia fragarioides, Tratt. ; abundant in certain localities ; Old Camp Ground back side of Little Stissing Mt., Peck Swamp, etc. ; vid. § 127, Vol. V.

Potentilla Norvegica, L. ; very common. *P. Canadensis*, L. ; very common ; *Var. simplex* ; frequent.—*P. argentea*, L. ; common.—*P. arguta*, Pursh. ; common on Stissing Mt.—*P. fruticosa*, L. ; common ; vid. § 127, Vol. V.—*P. tridentata*, Ait. ; Summit of Stissing Mt.

- Fragaria Virginiana*, Erh. ; very common everywhere.—*F. vesca*, L. ; common, on hills with preceding, but not so generally diffused.
- Rubus odoratus*, L. ; common.—*R. triflorus*, Rich. ; common in our deep, dryish swamps and marshes.—*R. strigosus*, Michx. ; very common.—*R. neglectus*, Peck. ; rather uncommon, growing in same locations as preceding, but seeming to be fully distinct, with never any intermediate specimens.—*R. occidentalis*, L. ; very common.—*R. villosus*, Ait. ; common ; *Var. frondosus*, in *L. Smith's* swamp ; *Var. humifusus*, frequent.—*R. Canadensis*, L. ; very common.—*R. hispidus*, L. ; common.
- Rosa Caroliniana*, L. ; common.—*R. lucida*, Ehr. ; common.—*R. blanda*, Ait. ; rare, on Stissing Mt.—*R. rubiginosa*, L. ; rather common.—*R. micrantha*, Smith. ; scarce.—*R. cinnamomea*, L. ; growing spontaneously in several localities.
- Cratægus coccinea*, L. ; common.—*C. tomentosa*, L. ; not uncommon ; *Var. punctata*, quite frequent.—*C. Crus-galli*, L. ; quite common.
- Pyrus arbutifolia*, L. ; *Var. erythrocarpa* ; *Var. melanocarpa* ; both common, particularly the latter.—*P. Americana*, DC. ; frequent on some of our mountains ; in swamp near summit of Stissing Mt. (*G. M. Wilber.*)
- Amelanchier Canadensis*, Torr. & Gr. ; common ; *Varr. Botryapium* and *oblongifolia* ; quite frequent.

SAXIFRAGACEÆ.

- Ribes Cynosbati*, L. ; quite common.—*R. hirtellum*, Michx. ; common.—*R. rotundifolium*, Michx. ; Stissing Mt. and adjoining rocky hills.—*R. floridum*, L. ; common.—*R. rubrum*, L. ; not rare ; further, for this and preceding, vid. § 127, Vol. V.
- Parnassia Caroliniana*, Michx. ; very common in all our marshes and low meadows.
- Saxifraga Virginiensis*, Michx. ; very common.—*S. Pennsylvanica*, L. ; common ; Valerian marsh W. of Attlebury Station.
- Mitella diphylla*, L. ; very common in all our moist woods, etc.
- Tiarella cordifolia*, L. ; not common ; along Roeliff Jansen's Kill, and its small tributary, Furnace Brook.
- Chrysosplenium Americanum*, Schwein. ; common.

CRASSULACEÆ.

- Penthorum sedoides*, L. ; common.
- Sedum Telephium*, L. ; common ; along roadsides and in fields.

HAMAMELACEÆ.

- Hamamelis Virginica*, L. ; very common.

HALORAGACEÆ.

- Myriophyllum spicatum*, L. ; quite common in Stissing and Mud Ponds.—*M. verticillatum*, L. ; also frequent in our ponds.
- Proserpinaca palustris*, L. ; quite common ; swamp on Stissing Point, etc.

ONAGRACEÆ.

- Circæa Lutetiana*, L. ; common.—*C. alpina*, L. ; abundant in most of the deep woods ; Strever's Grove.

- Epilobium angustifolium*, L.; common.—*E. palustre*, L., *Var. lineare*, Gray; common in all our bogs and marshes; abundant in *Valeriana sylvatica* habitats.—*E. molle*, Torr.; rare; in swamp east of Jno. Titus' place.—*E. coloratum*, Muhl.; very common.
- Oenothera biennis*, L.; very common; *Var. grandiflora*, along Poughkeepsie R. R., near Station.—*O. fruticosa*, L.; south-west of Stissing Station. [*Extra-limital*].—*O. pumila*, L.; common everywhere.
- Ludwigia alternifolia*, L.; rather rare; along Wappingers Creek, (*G. M. Wilber*), and in Wappingers Marsh.—*L. palustris*, Ell.; common.

LYTHRACEÆ.

- Ammania humilis*, Michx.; (?); in old pools, west of Attlebury Hill, (1873)—station now destroyed.
- Nesaea verticillata*, H.B.K.; rather common; in old ditches, Wappingers Marsh, opp. Eb. Husted's; Jno. Fingar's Cranberry Marsh.
- Cuphea viscosissima*, Jacq.; rare; D. Bush's meadow.

CACTACEÆ.

- Opuntia vulgaris*, Mill.; on rocky hills, towards Hudson River, *R. Peck*. [*Extra-limital*.]

CUCURBITACEÆ.

- Sicyos angulatus*, L.; common along our large creeks, and about yards.
- Echinocystis lobata*, Torr. & Gr.; abundant along Raelif Jansen's Kill, where it is indigenous.

UMBELLIFERÆ.

- Hydrocotyle Americana*, L.; common.
- Sanicula Canadensis*, L.; not common; south part of Stissing Mt., etc.—*S. Marilandica*, L.; very common.
- Daucus Carota*, L.; very common everywhere, fields and roadsides.
- Heracleum lanatum*, Michx.; rather rare; in meadows, back of Notch of Stissing Mt.
- Pastinaca sativa*, L.; very common.
- Archangelica hirsuta*, Torr. & Gr.; common in our dry woods and on Mountain.—*A. atropurpurea*, Hoffm.; common.
- Conioselinum Canadense*, Torr. & Gr.; decidedly common in all our cold swamps; Pulver's Corner marshes.
- Æthusa Cynapium*, L.; rare, about a few yards.
- Thaspium aureum*, Nutt.; very common; a pernicious weed in many moist meadows.—*T. trifoliatum*, Gray; rather common in all our open woods; Mill Hill, etc.
- Zizia integrerrima*, DC.; quite common; Risedorf Hill, Snake Hill, etc.
- Cicuta maculata*, L.; common.—*C. bulbifera*, L.; common, in wet places and along overflowing streams.

Sium lineare, Michx. ; common.—*S. angustifolium*, L. ; in Muddy Brook, running through Mulberry Meadow Swamp, on Stissing Mt. (I am in some doubt concerning this plant, not having submitted it to competent authority. *Aspidium cristatum*, *Var. Claytonianum*, Eaton, grows very abundantly along the stream, in the same swamp.)

Cryptotaenia Canadensis, DC. ; common.

Osmorrhiza longistylis, DC. ; common.—*O. brevistylis*, DC. ; common.

Conium maculatum, L. ; not very common ; Mont Ross road ; Hot Ground, etc.

ARALIACEÆ.

Aralia racemosa, L. ; common in our rich woods and ravines.—*A. hispida*, Michx. ; rare ; in Stanford. [*Rather extra-limital*].—*A. nudicaulis*, L. ; very common, in all our woods and on Mountain. *A. quinquefolia*, Gray ; I have it from trustworthy authority that this plant used to be frequent on southern part of Stissing Mountain, being much sought after by the botanic physicians and simplers of those days, but I have never been able to find it, although I have hunted for it repeatedly. It has probably been exterminated, though it may yet be found in some of the secluded ravines of the Mountain.—*A. tritolia*, Gray ; rather common ; Peck's Swamp ; Silvermail Falls Flat.

CORNACEÆ.

Cornus Canadensis, L. ; not common ; abundant about swamps in southern part of Stissing Mt. ; Tamarack Swamp at Hot Ground.—*C. florida*, L. ; common.—*C. circinata*, L'Her. ; common.—*C. sericea*, L. ; common.—*C. stolonifera*, Michx. ; very common.—*C. paniculata*, L'Her. ; very common.—*C. alternifolia*, L. ; rather common.

Nyssa multiflora, Wang. ; rather common in our mountain swamps, and elsewhere.

CAPRIFOLIACEÆ.

Lonicera parviflora, Lam. ; rather common on Mountain and in hilly woods ; also grows in many of our deep peaty swamps.

Diervilla trifida, Mœnch ; very common.

Triosteum perfoliatum, L. ; common on the Mountain ; Mt. Ararat, and other rocky woods.

Sambucus Canadensis, L. ; very common.—*S. pubens*, Michx. ; quite common ; Muggin House Rocks ; Stissing Mountain and Mt. Ararat, etc.

Viburnum Lentago, L. ; common.—*V. nudum*, L. ; abundant in swamps southern part of Stissing Mt.—*V. dentatum*, L. ; common.—*V. pubescens* Pursh ; common on Stissing Mountain, Mt. Ararat and other rocky woods.—*V. acerifolium*, L. ; common.—*V. Opulus*, L. ; rather common ; Mt. Ararat ; abundant in swamps near Pulver's Corner with *Valeriana sylvatica*, etc.—*V. lantanoides*, Michx. ; quite rare, on mountains and in a few deep ravines.

RUBIACEÆ.

Galium Aparine, L. ; common.—*G. asprellum*, Michx. ; common.—*G. trifidum*, L. ; common ; *Var. pusillum*, with *Valeriana sylvatica* at Pulver's Corner.—*G. triflorum*, Michx. common.—*G. pilosum*, Ait. ; common on Stissing Mt.—*G. circæzans*, Michx. ; common.—*G. lanceolatum*, Torr., nearly as common as preceding.—*G. boreale*, L. ; ravines eastward, but extra-limital ; it undoubtedly grows on the Mountain.

Cephalanthus occidentalis, L. ; common.

Mitchella repens, L. ; common.

Houstonia carulea, L. ; not common ; but abundant in R. Ham's meadows, (*Miss Hattie D. Bostwick*) ; also near Shekomoko.

VALERIANACEÆ.

Valeriana sylvatica, Richards, vid. § 48 and § 56, Vol. VI. ; this rare plant is certainly not scarce about Pine Plains. It is abundant in the following localities: in Mulford Wheeler's peat bog or marsh near Pulver's Corner ; Pogonia swamps, near Attlebury ; Wappingers Marsh, near base of Stissing Mt. ; Marsh west of Croghan Hill, etc. It embraces a circuit of about twelve miles in diameter, this being the extent thus far of my botanical explorations ; hence the plant undoubtedly extends much farther, and very probably will be found in Massachusetts and Connecticut, one of my stations being within three miles of the line of the latter State.

COMPOSITEÆ.

Vernonia noveboracensis, Willd. ; westward towards Hudson River, but *extra-limital*.

Eupatorium purpureum, L. ; very common.—*E. sessilifolium*, L. ; not common, but abundant on south end of Risedorf Hill, and elsewhere. *E. perfoliatum*, L. ; common.—*E. ageratoides*, L. ; common.

Mikania scandens, L. ; very rare ; abundant in marsh east of Croghan Hill.

Tussilago farfara, L. ; exceedingly common along most of our streams and elsewhere.

Sericocarpus conyzoides, Nees. ; common.

Aster corymbosus. ; Ait. ; common.—*A. macrophyllus*, L. common on Mountain and in open woods.—*A. patens*, Ait. ; common.—*A. lævis*, L. ; common ; *Var. lævigatus*, and *Var. cyanens* ; rather common.—*A. undulatus*, L. ; very common,—perhaps, our most common *Aster*.—*A. sagittifolius*, Willd. ; rare, ravines, on Hunting Hill.—*A. cordifolius*, L. ; common.—*A. ericoides*, L. ; rather common.—*A. multiflorus*, Ait. ; common.—*A. dumosus*, L. ; rather rare.—*A. Tradescantia*, L. ; very common.—*A. miser*, L., Ait. ; common.—*A. simplex*, Willd. ; not common.—*A. Novi-Belgii*, L. ; rare, sparingly along Wappingers Creek, below Attlebury.—*A. longifolius*, Lam. ; rather uncommon.—*A. puniceus*, L. ; very common.—*A. Novæ-Angliæ*, L. ; very

common.—*A. acuminatus*, Michx. ; abundant about the swamps, on southern part of Stissing Mt., Mulberry Meadow, etc. ; Fingar cranberry marsh.

Erigeron Canadense, L. ; very common.—*E. bellidifolium*, Muhl. ; common.—*E. Philadelphicum*, L. ; rather common ; Silvernail Falls, etc.—*E. annuum*, Pers. ; very common.—*E. strigosum*, Muhl. ; very common.

Diplopappus umbellatus, Torr. & Gr. ; rather common about most of our swamps, on mountain and plain.—*D. cornifolius*, Darl. ; common ; abundant in nearly all our woods, and on Mountain,—our most common *Diplopappus*.

Solidago squarrosa, Muhl. ; common,—one of our most common *Solidagos* in our open woods.—*S. bicolor*, L. ; very common.—*S. latifolia*, L. ; common, along the streams and in our cold woods.—*S. caesia*, L. ; very common.—*S. puberula*, Nutt. ; very common on southern and, also, the higher part of Stissing Mt.—*S. stricta*, Ait. ; common, in all our marshes and peat-bogs.—*S. speciosa*, Nutt. ; very abundant on north side of Mill Hill ; N. E. end of Risedorf Hill, with *S. rigida*, and elsewhere.—*S. thyrsoidea*, E. Meyer ; on the bluffs above Gypsy's Glen, south-west of summit of Stissing Mt.—*S. rigida*, L. ; quite rare, but grows plentiful on and at base of Risedorf Hill.—*S. neglecta*, Torr. and Gray. ; rare in some of our large swamps.—*S. patula*, Muhl. ; very common in our swamps and low grounds.—*S. arguta*, Ait. ; common.—*S. Muhlenbergii*, Torr. & Gray ; very common in all our woods and on Mountain.—*S. altissima*, L. ; very common. *S. ulmifolia*, Muhl. ; rather common in all our open, rocky limestone woods ; Mill Hill.—*S. odora*, Ait. ; not common, but frequent, with *Var. inodora*, on southern part of Stissing Mt.—*S. nemoralis*, Ait. ; very common.—*S. Canadensis*, L. ; very common.—*S. serotina*, Ait. ; common.—*S. gigantea*, Ait. ; common.—*S. lanceolata*, L. ; very common.

I take a certain pride in the list of *Solidagos* and *Ferns* of this town,—all growing within two or three miles of the village.

Inula Helenium, L. ; common along roadsides.

Ambrosia trifida, L. ; rare ; near mouth of Shekomeko, and along Roelif Jansen's Kill.—*A. artemisiæfolia*, L. very common.

Xanthium strumarium, L. ; common.

Rudbeckia laciniata, L. ; common.—*R. triloba*, L. quite common in fields and along roadsides, south end of Stissing Mt., also along some of our large streams.—*R. hirta*, L. ; too common in our fields.

Helianthus annuus, L. ; somewhat spontaneous.—*H. strumosus*, L. ; common.—*H. divaricatus*, L. ; common.—*H. decapetalus*, L. ; common ; along Shekomeko Ck. and other streams. I have generally found this species accompanying *Struthiopteris Germanica*, Willd.—*H. tuberosus*, L. ; quite common ; well naturalized.

Bidens frondosa, L. ; very common.—*B. connata*, Muhl. ; common. *B. cernua*, L. ; not common ; around some cold, wet swamps ;

- in some specimens it approximates very closely to the next.—*B. chrysanthemoides*, Michx. ; common.
- Helenium autumnale*, L. ; quite frequent along Shekomeko Ck. and Roelif Jansen's Kill., etc.
- Maruta cotula*, DC. ; very common.
- Achillea Millefolium*, L. ; very common ; the pink *variety* is quite handsome.
- Leucanthemum vulgare*, Lam. ; very common.—*L. Parthenium*, Godron. ; well established along yard fences, and also in Sylvan Glen, Ham's Woods.
- Tanacetum vulgare*, L., and *Var. crispum* ; both common.
- Artemisia Absinthium*, L. ; around a few old yards.
- Gnaphalium decurrens*, Ives ; rather common in our upper fields and woods ; Snake Hill.—*G. polycephalum*, Michx. ; common.—*G. uliginosum*, L. ; common.
- Antennaria margaritacea*, R. Brown ; common.—*A. plantaginifolia*, Hook. ; common.
- Erechthites hieracifolia*, Raf. ; common.
- Senecio vulgaris*, L. ; very rare, in a few waste places.—*S. aureus*, L., and two or three of its *varieties*, common.
- Centaurea Cyanus*, L. ; about a few old gardens.
- Cirsium lanceolatum*, Scop. ; very common.—*C. discolor*, Spreng. ; quite common.—*C. muticum*, Michx. ; common in our swamps.—*C. pumilum*, Spreng. ; common.—*C. arvense*, Scop. ; too common ; a terrible pest in many fields.
- Onopordon acanthium*, L. ; rare ; in one of H. Ham's fields.
- Lappa officinalis*, Alli. ; common.
- Krigia Virginica*, Willd. ; common on gravelly banks ; Stissing Point and on Mountain.
- Hieracium Canadense*, Michx. ; quite common ; along N. road of Stissing Pond and so under Mountain, etc.—*H. scabrum*, Michx. ; common.—*H. Gronovii*, L. ; quite rare.—*H. venosum*, L. ; common.—*H. paniculatum*, L. ; common.
- Nabalus albus*, Hook. ; common.—*N. altissimus*, Hook. ; common in all our cold woods.—*N. Fraseri*, DC. ; not common ; in open lands, southern slope of Stissing Mt.
- Taraxacum Dens-leonis*, Desf. ; very common.
- Lactuca Canadensis*, L. ; very common ; *Var. integrifolia*, Torr. & Gray ; sparingly on Winchell Hill.
- Mulgedium leucophæum*, DC. ; common.
- Sonchus oleraceus*, L. ; in waste grounds of our village (*G. M. Wilber.*) and in some rich cultivated fields.—*S. asper*, Vill. ; frequent, but sparing.—*S. arvensis*, L. ; roadsides, near the Hudson River. [*extra-limital*]

LOBELIACEÆ.

- Lobelia cardinalis*, L. ; common along the mountain streams and in deep swamps.—*L. syphilitica*, L. ; common in all our swamps and low grounds.—*L. inflata*, L. ; common.—*L. spicata*, Lam. ; common ; much earlier than any of the other species, beginning to blossom early in June. *L. Kalmii*, L. ; this is one of the prettiest as well as one of the most common *Lobelias* of this re-

gion. In August and September, our marshes, open swamps and wet meadows are beautifully colored with the bright blue corollas of this handsome species. I do not find it on either "wet limestone rocks or banks," as Dr. Gray says in his *Manual*, but it grows in the most profusion here in alluvial grounds, either wild or in partial cultivation.

CAMPANULACEÆ.

- Campanula rotundifolia*, L.; very common on Stissing Mt., Mt. Ararat, and a few high, rocky hills.—*C. aparinoides*, Pursh; common in our low grounds.—*C. rapunculoides*, L.; this immigrant is thoroughly at home in this locality; it has taken full possession of many roadsides and fields, and is becoming a worse pest to our farmers than *Linaria vulgaris*.
Specularia perfoliata, A. DC.; dry gravelly banks; quite common.

ERICACEÆ.

- Gaylussacia resinosa*, Torr. & Gray; common.
Vaccinium Oxycoccus, L.; Eno's Spruce Hole; Van Tassall and Fingar cranberry marshes.—*V. macrocarpon*, Ait.; not so frequent as preceding; marsh on Carpenter Hill, on Marshall farm; also Strever marsh, southern part of Stissing Mt.; and Fingar and Van Tassel marshes.—*V. stamineum*, L.; common in all our woods.—*V. Pennsylvanicum*, L.; common.—*V. vacillans*, Soland.; common.—*V. corymbosum*, L.; common; *Vars.*, *amœnum*, *atrococcum*, frequent.
Chiogenes hispidula, Torr. & Gr.; Eno Tamarack swamp; Sackett's Attlebury marsh.
Arctostaphylos Uva-ursi, Spreng. frequent on the naked summits of the mountains.
Epigaea repens, L.; rather common; very abundant on the N. part of Little Stissing Mt. and in adjacent woods.
Gaultheria procumbens, L.; common everywhere.
Cassandra calyculata, Don; rather common; Spruce Hole Tamarack swamp; Hot Ground marshes, etc.
Andromeda polifolia, L.; Eno's Spruce Hole; Jno. Fingar Cranberry marsh; Bingham Pond.—*A. ligustrina*, Muhl.; common.
Kalmia latifolia, L.; common; Muggin House Rocks.—*K. angustifolia*, L.; quite common; most abundant in our peat swamps.—*K. glauca*, Ait.; rare; Jno. Fingar Cranberry marsh; about Bingham Pond.
Azalea viscosa, L. & *Vars.* *glauca* and *nitida*; common in all our swamps.—*A. nudiflora*, L.; common.
Ledum latifolium, Ait.; very rare; in Mulford Wheeler's *Valeriana* Swamp.
Pyrola rotundifolia, L., with two or three marked *varieties*; common.—*P. elliptica*, Nutt.; common.—*P. chlorantha*, Swartz; rather uncommon; Ham's Ravine Woods; on Stissing Mt. above Harrietta Falls, where it is very abundant.—*P. secunda*, L., common on N. side of Stissing Mt., and in its ravines; in most of our cold woods.

Chimaphila umbellata, Nuttall; common.—*C. maculata*, Pursh; very scarce about Pine Plains; it grows sparingly on the old Camp Ground, W. side of Little Stissing Mt., and I have found two or three plants on Mill Hill.

Monotropa uniflora, L.; common.—*M. Hypopitys*, L.; not very common; the *Var. rubra*, is more common than the typical form; Husted Woods, Mill Hill; Ostrander Forest, S. part of Stissing Mt.

AQUIFOLIACEÆ.

Ilex monticola, Gray; about ravines on Rhinebush Mt., one of the Taghkanic Range. [*extra-limital*] In moist grounds southern part of Stissing Mt.—*I. verticillata*, Gray; common in all our swamps.—*I. lævigata*, Gray; not common; Stissing Pine Swamp, etc.

Nemopanthes Canadensis, DC.; common in all our swamps; Spruce Hole; Pine Swamp, etc.

PLANTAGINACEÆ.

Plantago major, L.; very common.—*P. lanceolata*, L.; common.

PRIMULACEÆ.

Trientalis Americana, Pursh; rather common; Pine Swamp; Mill Hill, etc.

Lysimachia thyrsiflora, L.; frequent; Stissing Point; R. R. swamp, East of Ten Eyck's and in most of the deep, cold swamps.—*L. stricta*, Ait.; common.—*L. quadrifolia*, L.; common.—*L. ciliata*, L.; very common in all low grounds.—*L. lanceolata*, Walt.; rare about Pine Plains.—*L. nummularia*, L.; fully naturalized in many places; south end of Stissing Pond; along Furnace Brook, above Silvernail Bridge, etc.

Anagallis arvensis, L.; not common; along roadside, by Roelif Jansen's Kill, near Jackson Corners (*G. M. Wilber*); along banks of Shekomeko, near its mouth.

LENTIBULACEÆ.

Utricularia vulgaris, L.; common in our ponds and pools.—*U. minor*, L.; in Marshall Cranberry Marsh, on Carpenter Hill.—*U. cornuta*, Michx.; Jno. Fingar Cranberry Marsh, and in marsh along Van Tassel Pond.

OROBANCHACEÆ.

Epiphegus Virginiana, Bart.; common under beech trees; Hoffman's Beech swamp; Rudd Ravine, etc.

Aphyllon uniflorum, Torr. & Gray; rather common; Little Stissing Mt.

SCROPHULARIACEÆ.

Verbascum Thapsus, L.; common.—*V. Blattaria*, L.; quite common along our railroads and roadsides.

Linaria vulgaris, Mill.; very abundant, but not so common as it was 20 years ago, as it seems to be running out in many old fields and places.

Scrophularia nodosa, L.; rather common.

Chelone glabra, L.; common.

Mimulus ringens, L.; common.

Gratiola Virginiana, L.; common in wet places.

Ilysanthes gratioloides, Benth.; common in moist sandy places; bottom of Thomas' old mill dam, etc.

Veronica Virginica, L.; common in our meadows and in rich copses along our streams.—*V. Anagallis*, L.; quite common; along streams, brooks, etc.—*V. Americana*, Schwein.; common.—*V. scutellata*, L.; common; Keller Swamp Hole, along west road.—*V. officinalis*, L.; common in dry fields and open woods; Roxbury and School-house woods.—*V. serpyllifolia*, L.; common.—*V. peregrina*, L.; common.—*V. arvensis*, L.; quite common.

Gerardia purpurea, L.; scarce; in Tripp's Wild Lands, south of Pulver Corners.—*G. tenuifolia*, Vahl.; common.—*G. flava*, L.; common; Snake Hill woods, etc.—*G. quercifolia*, Pursh; more common than preceding; Snake Hill and all open woods.—*G. pedicularia*, L.; not very common; Slate Hills, N. of village and S. part of Stissing Mt.

Pedicularis Canadensis, L.; common.

Melampyrum Americanum, Michx.; common.

VERBENACEÆ.

Verbena angustifolia, Michx.; rather common; Burnap limestone fields; Turpin fields and on Dr. Peck's farm near Stissing. In this section it is found only on limestone land.—*V. hastata*, L.; common.—*V. urticifolia*, L.; common.

Phryma Leptostachya, L.; common.

LABIATÆ.

Trichostema dichotomum, L.; very common on our sandy land near the village.

Mentha viridis, L. common; abundant along the Shekomeko.—*M. piperita*, L.; quite common; along Stissing Pond.—*M. arvensis*, L.; rare; in Ham's fields.—*M. Canadensis*, L.; common along all our streams.

Lycopus Virginicus, L.; not very common; about pond holes in Strever meadows.—*L. rubellus*, Moench; not common; along Roelif Jansen's Kill.—*L. sinuatus*, Ell.; common.

Pycnanthemum incanum, Michx.; common in all our rocky woods.—*P. lanceolatum*, Pursh; rather common; Thompson's Marsh along Wappengers Ck.

Origanum vulgare, L.; very common in this region. It seems to flourish in a dry, calcareous soil. Our rocky, limestone fields, hills and woods for many miles hereabouts, are completely overrun with this plant, and it has become—laying aside its real prettiness—a great pest to farmers on this kind of land.

Calamintha Clinopodium, Benth.; quite common along borders of woods and fields.

Hedeoma pulegioides, Pers.; very common.

Collinsonia Canadensis, L.; common.

Blephilia hirsuta, Benth.; rather abundant along Roelif Jansen's Kill; in Bush Swamp, $\frac{1}{2}$ mile above Silvernail bridge, growing with *Hypericum pyramidatum*.

Lophanthus nepetoides, Benth.; quite rare; along roadside by Germond place, $\frac{1}{2}$ mile S. E. of Attlebury—*L. scrophulariæfolius*,

- Benth.; rather common; along fences, near Thomas' mill; east base of Mt. Ararat; along base of Hunting Hill, etc.
Nepeta Cataria, L.; common.—*N. Glechoma*, Benth.; not scarce; along Shekomeko, near Carman's mill, etc.
Physotegia Virginiana, Benth.; running wild along roadsides and about yards.
Brunella vulgaris, L.; common.
Scutellaria galericulata, L.; common.—*S. lateriflora*, L.; common.
Marubium vulgare, L.; scarce, etc.
Galeopsis Tetrahit, L.; quite scarce; along roadside, and in Wheeler's Swamp, near Pulver Corners.
Leonurus Cardiaca, L.; common.
Lamium amplexicaule, L.; quite common in cultivated grounds; Hoff. Strever's fields around barn.

BORRAGINACEÆ.

- Echium vulgare*, L.; quite rare at present, but is becoming more frequent every year.
Symphytum officinale, L.; well naturalized; Robt. Rowe Ravine.
Myosotis verna, Nutt.; rather common on Little Stissing,—along road to Notch.
Cynoglossum officinale, L.; common.—*C. Virginicum*, L.; rare on W. side of Stissing Mt. near Harrietta Falls,—the only detected habitat.—*C. Morrisoni*, DC.; pretty common; N. end of Little Stissing.

CONVOLVULACEÆ.

- Ipomœa purpurea*, Lam.; running wild about some yards.
Calystegia sepium, R. Br.; very common.—*C. spithamea*, Pursh; common; along base of Little Stissing, etc.
Cuscuta Gronovii, Willd.; common.

SOLANACEÆ.

- Solanum Dulcamara*, L.; common.—*S. nigrum*, L.; rare; along Stissing Pond, below Engelke's yard.
Physalis Philadelphia, Lam.; around Carman's old mill.—*P. viscosa*, L.; common.
Lycium vulgare, Dunal.; becoming naturalized.
Datura Stramonium, L.; common along roadsides and about old barn yards.

GENTIANACEÆ.

- Gentiana quinqueflora*, Lam.; scarce; along south bank of Roeliff Jansen's Kill, below Silvernail Falls; in fields, towards Boston Corner.—*G. crinita*, Froel.; common, both in our woods and marshes; abundant on North side of Mill Hill.—*G. Andrewsii*, Griseb.; common in wet glades and along the principal streams.
Bartonia tenella, Muhl.; not very common; abundant in Eno Tamaraek Swamp; Miller and Van Tassel cranberry marsh swamps.
Menyanthes trifoliata, L.; not rare in our marshes; Hoysradt Marsh; Carpenter Hill Marsh, and in Drowned Lands above Hot Ground.

APOCYNACEÆ.

- Apocynum androsaemifolium*, L.; common.—*A. cannabinum*, L.; frequent, but not so common as preceding species.

ASCLEPIADACEÆ.

- A. Cornuti, Decaisne; common.—A. phytolaccoides, Pursh, not common; along east base of Mt. Ararat, etc.—A. purpurascens, L.; rare; in moist glades on Stissing Mt.—A. quadrifolia, Jacq.; common in our dry woods.—A. incarnata, L.; very common in wet places and along streams.—A. obtusifolia, Michx.; scarce; along roadside N. of village! (*G. M. Wilber*)—A. tuberosa, L.; rather frequent; South part of Ten Eyck Hill; southern part of Stissing Mt.; in open fields.—A. verticillata, L.; very rare; S. W. of summit of Little Stissing—the only station detected.

OLEACEÆ.

- Ligustrum vulgare, L.; scarce; in copses west of Stissing.
Fraxinus Americana, L.; common.—F. pubescens, Lam.; rather uncommon.—F. sambucifolia, Lam.; common in the swamps; Peck's Swamp.

ARISTOLOCHIACEÆ.

- Asarum Canadense, L.; common: East side of Mill Hill and Risedorf Hill.

PHYTOLACCACEÆ.

- Phytolacca decandra, L.; common.

CHENOPODIACEÆ.

- Chenopodium album, L.; very common.—C. hybridum, L.; common.—C. ambrosioides, L.; around L. Smith's barnyard. (*G. M. Wilber*)
Atriplex patula, L.; roadsides in village of Pine Plains, near Pell's buildings.

AMARANTACEÆ.

- Amarantus paniculatus, L.; about some gardens.—A. retroflexus, L.; rather common.—A. albus, L.; very common.

POLYGONACEÆ.

- Polygonum orientale, L.; along Shekomeko Ck., above Milton Smith's place.—P. Pennsylvanicum, L.; common; E. shore of Stissing Pond, etc.—P. incarnatum, Ell.; not uncommon; along Shekomeko Ck. and Jansen's Kill.—P. Persicaria, L.; very common.—P. Hydropiper, L.; very common.—P. acre, H. B. K.; frequent.—P. hydropiperoides, Michx.; rather frequent.—P. amphibium, L.; *Var. aquaticum*, Willd.; common; along new road across Stissing Pond, etc.; *Var. terrestre*, Willd.; rather common; east side of Hoysradt Marsh and along Wap-pingers Ck.—P. Virginianum, L.; common in all our rich dry swamps.—P. aviculare, L.; very common; *var. erectum*, Roth.; common.—P. tenne, Michx.; common on our gravelly banks.—P. arifolium, L.; common in cold swamps; Hoffman's Beech Swamp.—P. sagittatum, L.; very common.—P. Convulvulus, L.; common.—P. cilinode, Michx.; on Stissing Mt.—P. dumetorum, L., *Var. scandens*, Gray; common.

- Fagopyrum esculentum, Moench. in copses and waste places.

- Rumex orbiculatus, Gray; frequent in many of our deep swamps.
—R. verticillatus, L.; quite rare.—R. crispus, L.; very common.
—R. obtusifolius, L.; common.—R. acetosella, L.; very common.

LAURACEÆ.

Sassafras officinale, Nees. ; common.

Lindera Benzoin, Meisner ; rather common on Mountain and elsewhere.

THYMELEACEÆ.

Dirca palustris, L. ; frequent in our moist woods, but never abundant.

SANTALACEÆ.

Commandra umbellata, Nutt. ; common.

CERATOPHYLLACEÆ.

Ceratophyllum demersum, L. ; common : in some of the stations in this district the plants appear to fruit very freely.

CATLITRICHACEÆ.

Callitriche verna, L. ; not very common.—*C. heterophylla*, Pursh ; common,—far more so than preceding species.

EUPHORBIACEÆ.

Euphorbia maculata, L. ; common.—*E. hypericifolia*, L. ; common.—*E. Cyparissias*, L. ; along roadsides ; the waste places in Pine Plains Evergreen Cemetery are completely overrun by this weedy immigrant.

Acalypha Virginica, L. ; common.

URTICACEÆ.

Ulmus fulva, Michx. ; common.—*U. Americana*, L. ; common.—*U. racemosa*, Thomas ; not very frequent.

Celtis occidentalis, L. ; rather common on Stissing Mt. ; *Var. crassifolia* ; near Stissing, probably escaped from cultivation into copses.

Morus rubra, L. ; frequent on Stissing Mt.—*M. nigra*, L. ; running wild.—*M. alba*, L. ; this species with the preceding was largely planted 35 years ago, for the purpose of feeding silk-worms, into which enterprise—rearing silk-worms—one of the old citizens of this place embarked a large amount of capital. The trees are now everywhere springing up spontaneously.

Urtica gracilis, Ait. ; common.—*U. dioica*, L. ; sparingly introduced. *Laportea Canadensis*, Gaud. ; common along the large streams, and in all our moist rich woods.

Pilea pumila, Gray ; very common.

Bœhmeria cylindrica, Willd. ; very common.

Cannabis sativa, L. ; scarce,—waste grounds of Evergreen Cemetery ; occasionally found in alluvial lands of Leander Smith, etc., along Wappinger's Creek. It was many years ago largely cultivated for manufacturing purposes on some of these grounds. (*G. M. Wilber.*)

Humulus Lupulus, L. ; common,—along Roelif Jansen's Kill and the other creeks ; also on Stissing Mt. and along the border of the large swamps. It is certainly indigenous in Pine Plains.

PLATANACEÆ.

Platanus occidentalis, L. ; common.

JUGLANDACEÆ.

Juglans cinerea, L. ; common.—*J. nigra*, L. ; quite common.

Carya alba, Nutt. ; very common.—*C. tomentosa*, Nutt. ; rather

common in the upland woods.—*C. porcina*, Nutt.; common everywhere.—*C. amara*, Nutt.; not frequent in our swamps.

CAPULIFERÆ.

Quercus alba, L.; common.—*Q. bicolor*, Willd.; common.—*Q. prinus*, L.; scarce on southern part of Stissing Mt.; *Var. monticola*, Michx.; common on Stissing Mt. and the upland woods.—*Q. prinoides*, Willd.; abundant on Stissing Mt., Mill Hill, etc.—*Q. ilicifolia*, Wang.; common.—*Q. coccinea*, Wang.; common; *Var. tinctoria*; not scarce.—*Q. rubra*, L.; common.—*Q. palustris*, Du Roi; not very frequent.

Castanea vesca, L.; very common.

Fagus ferruginea, Ait.; common.

Corylus Americana, Walt.; common.—*C. rostrata*, Ait.; common on Mountain, and borders of rocky woods.

Ostrya Virginica, Willd.; common.

Carpinus Americana, Michx.; very common.

MYRICACEÆ.

Myrica Gale, L.; rather uncommon; along Wappinger's Creek, Husted and Sackett marshes; abundant around Grass Pond on Mountain.

Comptonia asplenifolia, Ait.; common.

BETULACEÆ.

Betula lenta, L.; common.—*B. lutea*, Michx., f.; quite common; abundant in many of the moist woods, and particularly in the deep ravines of the Mountain.—*B. alba*, *Var. populifolia*, Spach.; very common.—*B. papyracea*, Ait.; decidedly common; the prevailing *White Birch* on Stissing Mt., and on many of our other high cold hills.—*B. nigra*, L.; not frequent; along one or two of our large creeks; Roelif Jansen's Kill.—*B. pumila*, L.; marsh west of Croghan Hill; Wappinger's marshes; marsh along R. R. track, N. E. of Leander Smith's place; Marshall's Cranberry Marsh, on Carpenter Hill, etc. This rare species is very abundant in the *great* marshes and bogs about Pine Plains, and its haunts, or habitats, are usually those of *Valeriana sylvatica*, *Lobelia Kalmii*, *Cypripedium spectabile*, etc. Like *Valeriana sylvatica* of these marshes, it here generally assumes a very luxuriant form, frequently growing to the height of 12 to 15 ft., but averaging usually from 6 to 10 ft.

Alnus incana, Willd.; common; abundant along our ponds, streams and in our cold swamps.—*A. serrulata*, Ait.; rather more common than preceding; the two species are very easily distinguished from each other, even after the leaves have fallen, by the different appearance of their bark.

SALICACEÆ.

Salix candida, Willd.; abundant in all the bogs and marshes in which *Valeriana* is found.—*S. humilis*, Marshall; common in all our dry woods.—*S. discolor*, Muhl.; common.—*S. sericea*, Marshall; quite common; along sandy banks of Trout Brook, Shekomeko Creek, etc.—*S. cordata*, Muhl.; common.—*S. livida*, Wahl., *Var. occidentalis*, Gray; rather common.—*S. lucida*, Muhl.; common along the creeks and smaller streams.—*S.*

nigra, Marsh. ; along Roelif Jannsen's Kill.—*S. alba*, L., and *Var. vitellina* ; the variety is very common along the streams, and elsewhere,—probably mostly planted in these places.—*S. Babylonica*, Tourn. ; common in cultivation,—still I know of no instance in which it has really run wild.—*S. myrtilloides*, L. ; sparingly found in a large peat bog on southern part of Stissing Mt.

Populus tremuloides, Michx. ; common.—*P. grandidentata*, Michx. ; rather common.—*P. heterophylla*, L. (?) ; swamp by Roelif Jansen's Kill.—*P. balsamifera*, L. ; *Var. candicans*, and *P. alba*, L., are spreading widely by the root in this region.—*P. dilatata*, Ait. ; still found about many old homesteads, the offspring from the plantings of the early Dutch settlers.

CONIFERÆ.

Pinus rigida, Miller ; common.—*P. strobus*, L. ; common.

Abies nigra, Poir. ; not rare ; Eno Spruce Hole ; Croghan Hill Marsh, etc.—*A. Canadensis*, Michx. ; common.—*A. balsamea*, Marshall ; frequent on Stissing Mt., and a few of our other wooded hills.

Larix Americana, Michx. ; rather common.

Thuja occidentalis, L. ; quite abundant towards the Hudson River, but not found immediately about Pine Plains.

Juniperus communis, L. ; frequent in all of our woods.—*J. Virginiana*, L. ; common.

Taxus baccata, L., *Var. Canadensis*, Gray ; rare on Stissing Mt. ; not scarce on Mt. Riga.

ARACEÆ.

Arisæma triphyllum, Torr. ; common.—*A. Dracontium*, Schott. ; rather scarce ; Thomas meadow, along Shekomeko ; below Silvernail Falls.

Peltandra Virginica, Raf. ; common.

Symplocarpus foetidus, Salisb. ; common.

Acorus Calamus, L. ; common.

LEMNACEÆ.

Lemna trisulca, L. ; scarce ; pool by Wappinger's Creek, in Teneyck's meadow.—*L. minor*, L. ; common.—*L. polyrrhiza*, L. ; common.

TYPHACEÆ.

Typha latifolia, L. ; common.

Sparganium eurycarpum, Engelm. ; not common ; in ditches in Wappinger's marsh.—*S. simplex*, Huds. ; common.

NATADACEÆ.

Najas flexilis, Rostk. ; common.

Zannichellia palustris, L. ; common in nearly all the streams and ponds ; Wappinger's Creek, by Thompson Bridge.

Potamogeton natans, L. ; common.—*P. Oakesianus*, Robbins ; Thompson Pond, near inlet.—*P. Claytonii*, Tuckerm. ; rare ; pool by R. R., Attlebury Hill.—*P. lonchites*, Tuckerm. ; rather common ; abundant in Wappinger's Creek, etc.—*P. amplifolius*, Tuckerm. ; not scarce ; abundant at N. end of Stissing Pond, etc.—*P. gramineus*, L., common ; Wappinger's Creek ; Hoffman

Hoysradt Pond Marsh, S. end; *Var. heterophyllus*, *Sub-var. minor*, Robbins, above outlet of Mud Pond.—*P. lucens*, L.; common in all our ponds, Stissing, Halcyon, Thompson, Miller, etc., but *Var. minor*, is still more common.—*P. praelongus*, Wulfen; rather common; N. W. of islands, Mud Pond; Stissing Pond.—*P. perfoliatus*, L.; rare in one or two of the ponds.—*P. compressus*, L.; quite common; abundant in Stissing Pond; Wappinger's Creek, near Attlebury Station.—*P. obtusifolius*, Merts. & Koch.; rather scarce; Hoffman Mill Pond and old channel of Shekomeko, below the mill.—*P. pauciflorus*, Pursh; very common in all our ponds, etc., but exceedingly variable.—*P. pusillus*, L.; rather uncommon; N. end of Mud Pond, etc.—*P. pectinatus*, L.; not common; N. E. end of Thompson Pond; N. part of Stissing Pond.—*P. Robbinsii*, Oakes; very common in some of our ponds,—Mud, Halcyon, Stissing, Miller, etc.—For the correct determination of this genus, I am greatly indebted to Dr. J. W. Robbins of Uxbridge, Mass., who has kindly looked through a full suite of specimens from this district.

ALISMACEÆ.

Triglochin palustre, L.; very rare; only a single specimen in Sackett's Marsh.

Scheuchzeria palustris, L.; rare, but abundant about Bingham Pond on Mountain.

Alisma Plantago, L., *Var. Americanum*, Gray; common.

Sagittaria variabilis, Engelm.; common, with *Vars. obtusa*, *latifolia*, *hastata* (ordinary form), *diversifolia*, *angustifolia* and *gracilis*, frequent.

HYDROCHARIDACEÆ.

Anacharis Canadensis, Planchon; not common.

Vallisneria spiralis, L.; common; Mud Pond.

ORCHIDACEÆ.

Orchis spectabilis, L.; not scarce; Barton Woods, Mill Hill; Jno. A. Thompson Woods; abundant along stream above Harrietta Falls, Stissing Mt.

Habenaria tridentata, Hook.; frequent about swampy places, southern part of Stissing Mt., along East Ravine opening into Mulberry Meadow Swamp, with *Botrichium Matricariæfolium*, and *B. lanceolatum*.—*H. virescens*, Spreng.; abundant in swamps southern part of Stissing Mt.—*H. viridis*, R. Br., *Var. bracteata*, Reichenb.; very scarce; I have found only a few specimens along a stream, on south-eastern part of Stissing Mt.—*H. hyperborea*, R. Br.; rather common on N. side of Little Stissing, and in our wet cold woods.—*H. Hookeri*, Torr.; rather common, particularly on west side of Stissing Mt., under the hemlocks.—*H. orbiculata*, Torr.; rare; Deep Woods, near Silvernail Falls.—*H. lacera*, R. Br.; common; abundant in meadow, E. of N. end of Stissing Pond.—*H. psycodes*, Gray; common in the wet meadows, and swamps, particularly on Stissing Mt.—*H. fimbriata*, R. Br.; very rare; wet glade below Silvernail Falls, station now destroyed by freshet.

- Goodyera pubescens*, R. Br.; not rare; Stissing Mt.; very abundant in Briggs' Woods, beyond Bethel.
- Spiranthes latifolia*, Torr.; not common: S. end of Thompson Pond with *Ophioglossum vulgatum*; along Trout Brook and Hoysradt Marsh.—*S. cernua*, Richard.; common,—*S. gracilis*, Bigel.; not common, but abundant in Ham's Ravine Woods, and open places, Stissing Mt.—*S. simplex*, Gray; rare; Ham's Ravine Woods.—(*G. M. Wilber and L. H. H.*)
- Arethusa bulbosa*, L.; very rare; only a few specimens in L. Smith's bog, *G. M. W.*; in Cranberry Marsh, along Van Tassel Pond, June, 1878.
- Pogonia ophioglossoides*, Nutt.; rather common; Fingar Cranberry Marsh; Drosera Swamp, S. E. of Attlebury, etc. This plant appears almost always to be accompanied by *Calopogon pulchellus*.—*P. verticillata*, Nutt.; rather scarce; abundant on Stissing Mt. about Mulberry Meadow, but very seldom found in flower; the plants appear to be sterile.
- Calopogon pulchellus*, R. Br.; quite common; in same localities with *Pogonia ophioglossoides*.
- Microstylis monophyllos*, Lindl.; with *Liparis Loeselii*, in swamp in G. Lasher's *Jno. Fingar* Woods, Gallatin, June, 4, 1878.—*M. ophioglossoides*, Nutt.; rare; in and about Moss Flat, southwest of Harrietta Falls, Stissing Mt.; Geo. Rowe Woods, Gallatin.
- Liparis liliifolia*, Richard.; frequent on N. end of Stissing Mt.—*L. Loeselii*, Richard.; very rare; only detected in Pet. Lasher's Swamp.
- Corallorrhiza odontorrhiza*, Nutt.; sparingly found in several of our woods; Ham's Ravine Woods.—*C. multiflora*, Nutt.; common on mountain, and in all our woods.
- Aplectrum hyemale*, Nutt.; this plant, I have never found in Pine Plains, but I have good authority for its being found here frequently, thirty and more years ago, in some of our large swamps, by the botanic physicians and others; those swamps have since been largely cut away and partially drained and the plant may now be exterminated, for high cultivation is certainly the bane to many of the rarest and shyest plants of our native flora. Another cause of its rapid extermination here may arise from its being eagerly sought after by the vulgar and simple-minded, in early times, on account of its reputed properties as a philter.
- Cypripedium parviflorum*, Salisb.; common; Mill Hill, Risedorf Hill, etc.—*C. pubescens*, Wild.; not so common; swampy grounds on Stissing Mt.—*C. spectabile*, Swartz; rather common; abundant in Tamarack Swamp near Halstead Station; *Pogonia* Swamp, S. E. of Attlebury; Tamarack Swamp W. of Croghan Hill, Drowned Lands, etc.—*C. acaule*, Ait.; rather common on upper and southern parts of Stissing Mts. and in a few of the rich woods and swamps.

AMARYLLIDACEÆ.

- Hypoxys erecta*, L.; common.

XXII.

IRIDACEÆ.

Iris versicolor, L. ; common.

Sisyrinchium Bermudiana, L. ; common.

DIOSCOREACEÆ.

Dioscorea villosa, L. ; westward towards the Hudson River, but extra-limital.

SMILACEÆ.

Smilax rotundifolia, L. ; scarce ; abundant in a few swamps on southern part of Stissing Mt.—*S. herbacea*, L. ; common.

LILIACEÆ.

Trillium erectum, L. ; common ; *Var.* *album*, Pursh ; R. Peck's Swamp along D. & C. R. R., $\frac{3}{4}$ mile S. W. of village.—*T. cernuum*, L. ; not common, but very abundant along Wappinger's Creek, in L. Smith's Nut Swamp ; Thomas Meadow, along Shekomeko Ck.—*T. erythrocarpum*, Michx. ; quite frequent on Mt. Riga.

Medeola Virginica, L. ; common, especially around swamps on Mountain.

Veratrum viride, Ait ; common.

Chamælirium luteum, Gray ; rather common ; Davis Lot, Mill Hill ; Snake Hill ; S. W. of Stissing Mt., etc.

Uvularia grandiflora, Smith ; very rare ; along brook, in woods, $1\frac{1}{2}$ miles S. W. of Hot Ground.—*U. perfoliata*, L. ; common.—*U. sessilifolia*, L. ; very common in some meadows and low woods.

Streptopus roseus, Michx. ; frequent in ravines on Winchell Hill with *Phegopteris polypodioides* and *P. Dryopteris* ; common on Mt. Riga.

Clintonia borealis, Raf. ; very rare on Stissing Mt. ; abundant on Mt. Riga.

Smilacina racemosa, Desf. ; common.—*S. stellata*, Desf. ; not rare ; Peck's Swamp, S. E. part ; swamp E. of Jno. Titus Place ; Drowned Land swamps, etc.—*S. trifolia*, Desf. ; very rare ; found only in a bog east of Mt. Riga Pond.—*S. bifolia*, Ker. ; very common.

Polygonatum biflorum, Ell. ; common.—*P. giganteum*, Dietrich ; rather common ; abundant along Shekomeko Ck. ; Thomas Meadow ; Roelif Jansen's Kill, etc.

Asparagus officinalis, L. ; frequent ; apparently fully naturalized in a few of our open rocky woods ; also in waste places.

Lilium Philadelphicum, L. ; common ; top of Risedorf Hill and in all our open woods and on Mountain.—*L. Canadense*, L. ; very common in all meadows and moist situations.—*L. superbum*, L. ; rare ; along Shekomeko Ck.

Erythronium Americanum, Smith ; common.

Ornithogalum umbellatum, L. ; sparingly run wild.

Allium tricoccum, Ait. ; common ; E. base of Risedorf Hill ; below Silvernail Falls, etc.—*A. vineale*, L. ; only sparingly introduced.—*A. Canadense*, Kalm ; common ; along Shekomeko Ck. ; Thomas Meadow, etc. In crevices of bare rocks, southern part of Stissing Mt.

Muscari botryoides, Mill. ; along N. shore of Halcyon Lake.

Hemerocallis fulva, L. ; roadsides and waste places.

XXIII.

JUNCACEÆ.

Luzula pilosa, Willd. ; quite rare ; in Ham's Ravine Woods and along Furnace Brook, above Silvernail Bridge.—*L. campestris*, DC. ; common.

Juncus effusus, L. ; very common in our swamps and marshes.—*J. marginatus*, Rostk. ; not rare ; below inlet of Thompson Pond, etc.—*J. bufonius*, L. ; not frequent ; in meadow road, by Shekomeko bridge, Milton Smith Place ; Hunting Hill.—*J. tenuis*, Willd. ; very common.—*J. pelocarpus*. E. Meyer ; quite rare, N. shore of Thompson Pond ; common along Mt. Riga Pond.—*J. articulatus*, L. ; along streams E. of Mt. Riga.—*J. acumina-tus*, Michx. ; along Poughkeepsie R. R., above Stevens's Grove ; by Fowler Spring, Little Stissing Mt., etc.—*J. nodosus* L. ; com-mon ; Wm. Simmon's Mountain Meadow ; Stissing Pd., S. meadow, etc.—*J. Canadensis*. J. Gay ; common : *Var. longicau-datus*, Englm. ; rather common ; W. shore of Stissing Point ; Mt. Riga Pond, etc. : *Var. brachycephalus*, Englm. ; not rare ; Drowned Land marshes, with *Valeriana sylvatica* ;—also, more contracted, in Bryant Hoysradt Marsh and W. of Stissing Point with preceding variety : *Var. coarctatus*, Englm. ; not found on the low lands of Pine Plains, but very abundant in moist ground on the mountains, particularly along shores of Mt. Riga Pond.

Thanks are due to Dr. Geo. Engelmann, of St. Louis, for his revision of my determinations in this somewhat puzzling genus.

PONTEDERIACEÆ.

Pontederia cordata, L. ; very abundant in most of the ponds : *Var. angustifolia*, Torr., in Drowned Lands and Bryant Hoysradt marshes.

Schollera graminea, Willd. ; rather common ; along E. shore of Stissing Point, Stissing Pond, etc.

XYRIDACEÆ,

Xyris flexuosa, Muhl., Chapman ; rare ; Grass Pond, Mt. Riga : *Var. pusilla*, Gray, abundant along borders of Bingham Pond.—*X. Caroliniana*, Walt. ; frequent ; Jno. Fingar Cranberry Marsh ; Van Tassel Pond Marsh, and borders of Round Pond, Stanford.

ERIOCAULONACEÆ.

Eriocaulon septangulare, With. ; common ; Mud Pond ; along muddy shores of Mt. Riga Pond, its usual height is only one to two inches.

CYPERACEÆ.

Cyperus diandrus, L. ; quite common ; with *C. inflexus*, Thomas Mill-pond, etc.—*C. inflexus*, Muhl. ; quite abundant about Thomas' Old Mill-pond, Shekomeko Ck., the only habitat of this fragrant little galingale I have discovered.—*C. dentatus* Torr. ; rarely found in some of our large sandy swamps.—*C. phymatodes*, Muhl. ; along Roeliff Jansens Kill.—*C. strigosus*, L. ; common.—*C. Michauxianus*, Schultes, quite common ; Round Pond ; Stissing Pond, etc.—*C. filiculmis*, Vahl. ; grows quite plentiful in sandy fields near Mt. Riga.

Dulichium spathaceum, Pers.; common along shores of our ponds and in swamp holes.

Eleocharis Robbinsii, Oakes; abundant above outlet of Mud Pond, 1878.—*E. obtusa*, Schultes; common.—*E. olivacea*, Torr.; Cherrytree Point, W. shore of Thompson Pond: Little Mud Pond.—*E. palustris*, R. Br.; very common; var. *glaucescens*, Pulver Corner marshes.—*E. intermedia*, Schultes; not common; Thomas' Old Mill-pond and Thompson Pond.—*E. tenuis*, Schultes; frequent; Thompson Meadow; Fingar Marsh.—*E. acicularis*, R. Br.—very common along shores of ponds and in our large wet swamps.

Scirpus planifolius, Muhl.; common on many of the wooded hills, Stissing Mt., Mill Hill, Risedorf Hill, etc. This pretty caespitose species grows most abundant on limestone land—very sparingly with us: is it found on other soils?—*S. subterminalis*, Torr.; abundant in Lee Pond, Mt. Riga.—*S. pungens*, Vahl.; common along Stissing and Thompson ponds.—*S. Torreyi*, Olney; along east side Mt. Riga Pond.—*S. validus*, Vahl.; very common.—*S. Smithii*, Gray; this somewhat local species grows plentiful along shores of Stissing Pond, particularly below boat landing.—*S. fluviatilis*, Gray; in a large pond hole on the *Jno. Rowe* Hoystadt Farm, near C. Turpin Place; very stout and tall, 4 to 6 ft. high.—*S. atrovirens*, Muhl.; common.—*S. polyphyllus*, Vahl.; not common; Furnace Brook Swamp, etc.—*S. Eriophorum*, Michx.; common, also its *varieties*.—Pulver Corner marshes, etc.

Eriophorum Virginicum, L.; not uncommon; Bryant Hoysradt Marsh, and swamps on Stissing Mt.—*E. polystachyon*, L. common; Eno's Spruce Hole, etc.; both *Vars. angustifolium* and *latifolium* are found in our large marshes and peat-bogs.—*E. gracile*, Koch., *Var. paucinervium*, Engelm.; not common; Carpenter Hill Cranberry Marsh, etc.

Fimbristylis autumnalis, Roem. & Schult.; not common; Thompson Pond, with *Eleocharis olivacea*.—*F. capillaris*, Gray; common.

Rhynchospora fusca, Roem. & Schult.; rather common; along borders of Round Pond, Stanford; very abundant about Bingham and Mt. Riga Ponds.—*R. alba*, Vahl.; common in all of our marshes.—*R. capillacea*, Torr.; quite common; abundant in centre of Hoag Pond Marsh, W. of Risedorf Hill; South Pulver Corner marshes; Bryant Hoysradt Marsh, etc.—*R. glomerata*, Vahl.; rare in vicinity of Pine Plains; grows plentiful about Lee Pond, and on some parts of Mt. Riga.

Cladium mariscoides, Torr.; common; along Thompson and Stissing Ponds, etc.

Scleria pauciflora, Muhl.; this rare *Nut-Rush* I detected the past season (1878) growing quite plentiful in dry, sterile, rocky ground on south part of Stissing Mt.; its arboreous companions are mainly the Rock Oak and Pitch Pine.

Carex, L.

- C. polytrichoides*, Muhl. ; common.
- C. Wildenovii*, Schk. ; not common ; S. part of Burnap's School Woods ; Little Stissing Mt. ; Pond Hill, Lake Charlotte.
- C. bromoides*, Schk. ; common ; swamp in Notch of Stissing Mt. ; Peck's Swamp, etc.
- C. teretiuscula*, Good. ; common ; Bryant Hoysradt Marsh, etc.
—Var. Major Koch ; not rare ; also in Hoysradt Marsh ; Sackett's Attlebury Marsh and Tamarack Swamp, Stanford.
- C. vulpinoidea*, Mich. ; very common.
- C. stipata*, Muhl. ; common, in swamps and along streams.
- C. xlopecoidea*, Tuckerman ; this sedge found very sparingly in Western New York, and Pennsylvania to Michigan, etc., I detected the past season (1878) growing in Thomas Meadow, along the Shekomeko Creek. This detection brings the range of this sedge to the extreme eastern part of the State.
- C. sparganioides*, Muhl. ; common ; E. side Risedorf Hill, Strever's Grove, etc.
- C. cephalophora*, Muhl. ; common in all our woods.
- C. Muhlenbergii*, Schk. ; rare, but abundant on south slope of Little Stissing.—Var. *enervis*, Boott ; Wilber Meadow Hill, near Rich. Ham's place.
- C. rosea*, Schk. ; common.—Var. *minor*, Boott ; Peck's Swamp.—Var. *radiata*, Dew. ; Stissing Mt. Swamps ; Bash-Bish Falls.
- C. retroflexa*, Muhl. ; rather common ; Mill Hill ; road to Notch, Stissing Mt., etc.
- C. tenella*, Schk. ; not common, but abundant along Strever's Swamp, S. end of Stissing Mt. and in other swamps on mountain ; Fingar Swamp, with *Liparis Læselii*, *Microstylis monophyllos*, and *Cypripedium spectabile* ; also in Mt. Riga swamps.
- C. trisperma*, Dew. ; common in all our large swamps ; Eno's Tamarack Swamp, etc.
- C. canescens*, L. ; quite common in most of our swamps ; Notch Swamp on Mountain.
- C. vitilis*, Fries ; Stissing Mt. rare, but abundant near summit of Mt. Riga.
- C. Deweyana*, Schw. ; rare, in copses along Roelif Jansen's Kill.
- C. sterilis*, Willd. ; rather common ; Jno. Righter meadow, S. W. of hill, etc.
- C. echinita*, Murray, Var. *scirpoides*, Boott, (*C. stellulata*, var. *scirpoides*,) common ; swamps and wet places along the Shekomeko, etc.
- C. scoparia*, Schk. ; very common.
- C. lagopodioides*, Schk. ; common ; Peck's Swamp.
- C. cristata*, Schw. ; common.—Var. *mirabilis*, Boott, rather common ; generally in copses and along fence borders.
- C. Bebbii*, Olney ; in a large dryish marsh, near Attlebury, with *C. alata*—although a good *C. Bebbii* Mr. Wm. Boott would refer it to *C. cristata*, regarding *C. Bebbii* as probably only a form of the other.
- C. adusta*, Boott ; frequent in a number of our woods, certainly not

- rare; S. W. part of Stissing Mt.; Groper Hill; Ludlow Woods, Stanford.—Var. *argyrantha*, on Stissing Mt., and at Bash-Bish Falls.
- C. *foënea*, Willd.; found growing abundantly this past season on a cold slope near summit of Mt. Riga. It is quite remarkable for this maritime species to be found so far inland—90 miles from N. Y. City—and growing in such a situation.
- C. *tenera*, Dew.; frequent; Peck's Swamp by D. & C. R. R., etc.—Var. *major*, Olney, (*C. straminea*, var. *aperta*, Boott) rare, near Mountain summit.
- C. *straminea*, Schk.; Var. *typica*; quite rare; in *Scirpus fluviatilis* pond field.—Var. *minor*, Dew.; scarce, Fingar Woods.—Var. *Crawei*, Boott; rather common, on ledges, N. W. of Notch Swamp, and elsewhere on Stissing Mt.; Strever Hill Field near Carskaden Woods.
- C. *alata*, Torr.; this southern sedge I detected the past season (1878) in Sackett's Attlebury Marshes, near base of Stissing Mt. about four miles from Pine Plains.
- C. *vulgaris*, Fries; rare; in cold wet places on Mt. Riga.
- C. *aquatilis*, Wahl.; not common; along E. side of Drowned Lands, above Halstead Station; Dakin Marsh, N. of Riga Station.
- C. *torta*, Boott; quite common; along Henry Ham's Brook; Furnace Brook, above Silvernail Bridge; along Harrietta Brook on Stissing Mt., etc.
- C. *aperta*, Boott; rare, along Bingham Pond on Mt. Riga.
- C. *stricta*, Lam.; very common; the large tussocks, so common in many of our swamps and wild meadows, consist almost entirely of this species.—Var. *strictior* (Dewey), abundant in Husted Meadow, along Trout Brook.
- C. *crinita*, Lam.; not very common: outlet of Mud Pond; L. Smith's Swamp, etc.
- C. *gynandra*, Schw., Boott; much more common than the preceding species, which it somewhat resembles. On Stissing Mt., and Mt. Riga it is very abundant, and the prevailing species of its sub-section; abundant elsewhere in this region, in cold, springy places, as H. Ham's Brook Meadows, Wm. Simmon's meadows by Mountain.
- C. *limosa*, L.; only found in Tamarack Swamp, East Stanford, where it is quite plentiful.
- C. *irrigua*, Smith; rare, in marshes on Taghkanic Mts.
- C. *Buxbaumii*, Wahl.; not common; marshy meadow near Jno. Fingar's barn; Dakin Marsh, north of Riga Station.
- C. *aurea*, Nutt.; frequent in our cold wet meadows, along D. & C. R. R. below Peck's Swamp, etc.
- C. *tetanica*, Schk.; very common in all our marshes and meadows; Husted meadows along Trout Brook, etc.
- C. *granularis*, Muhl.; common in the meadows.
- C. *glaucoidea*, Tuck.; this new species grows quite plentiful in open places, particularly along paths and wood roads, on southern part of Stissing Mt.; as for instance, Strever Path to May Bars.
- C. *pallescens*, L.; common in our meadows and woods.—Var. *undulata*, frequent.

- C. conoidea*, Schk.; not rare; Silvernail Bridge Meadow; Hunting Hill Meadow and Peck Swamp Meadow.
- C. grisea*, Wahl.; quite common; Peck's Swamp; E. base of Risedorf Hill, etc.
- C. Davisii*, Schw. & Torr.; rare, but abundant along Roeliff Jansen's Kill, in low rich copses, as at Beaver Dam and Coons Crossing, Ancram.
- C. formosa*, Dew.; quite common; Ed. Hunting Meadows; Burnap School Woods by stream; along E. borders of Drowned Lands very abundant.
- C. gracillima*, Schw.; common; Peck's Swamp; Hoffman's Beech Swamp, etc.
- C. æstivalis*, M. A. Curtis. This rare sedge I detected the past summer growing in abundance near the summit of Mt. Riga, also near summit of Mt. Everett, Taghkanic Mts.
- C. virescens*, Muhl.; common; Rudd Ravine; Stissing Mt., etc. Also a peculiar form of this sedge grows copiously in low exsicated meadows with the next.
- C. triceps*, Michx.; common in most low woods and meadows; Clark Meadow by Stissing Pond.
- C. plantaginea*, Lam.; very rare; sparingly in ravines on Stissing Mt. and Mt. Riga.
- C. platyphylla*, Carey; common; Mill Hill.
- C. retrocurva*, Dew.; quite common; Burnap Woods; N. base of Hunting Hill; E. base Risedorf Hill, etc.
- C. digitalis*, Willd.; common; Strever's Grove; Mill Hill.
- C. laxiflora*, Lam.; rather common.—Var. *plantaginea*, Boott, N. base of Hunting Hill, etc.—Var. *intermedia* Boott; Mead's Run, Stanford and Spring woods, E. side Drowned Land.—Var. *blanda*, Boott; common.—Var. *blanda gracillima*, W. Btt.; Miller's Meadow, by Lake Charlotte; near summit of Mt. Riga.—Var. *latifolia*, Boott; E. base Risedorf Hill, with *Solea concolor* and *Aspidium Goldianum*; Hunting Hill.
- C. oligocarpa*, Schk., quite rare, but abundant on south slope of Little Stissing, between Notch road and Crandell Ledge.
- C. Hitchcockiana*, Dew.; also not frequent, but plentiful in Spring Woods, on E. border of Drowned Lands; Brook-bank copse, below Jno. Cronkright's Saw-mill, W. Stissing Mts.
- C. eburnea*, Boott; rare on a few limestone ledges.
- C. pedunculate*, Muhl.; frequent; Tanner Woods Swamp, south of Hedges' Pond, Hot Ground; Rudd's Ravine; Ludlow Woods, Stanford.
- C. umbellata*, Schk.; common; Muggin House Rocks, etc.
- C. Novæ-Angliæ*, Schw.; rare; only detected on upper part (above Notch) of Little Stissing.
- C. Emmonsii*, Dew.; rather common; Muggin House Rocks; Snake Hill; etc.
- C. Pennsylvanica*, Lam.; common, at Stissing Notch, above barn.
- C. varia*, Muhl.; very common; W. side of Muggin House Rocks, etc.
- C. pubescens*, Muhl.; common; Peck's Swamp; Barton Woods, Mill Hill, etc.

XXVIII.

- C. *miliacea*, Muhl.; common, especially in moist places along streams on Stissing Mt., as in Notch Swamp, and Old Camp Ground, Little Stissing.
- C. *scabrata*, Schw.; common with the preceding; Wm. Simmons' Spring Stream, Little Stissing, etc.
- C. *arctata*, Boott; nor common; rare on Stissing Mt., but abundant near summit of Mt. Riga and high peaks of the Taghkanic Mts.
- C. *debilis*, Michx.; very scarce in immediate vicinity of our village,—in a few dryish swamps south end of Stissing Mt., but the most abundant *Carex* in the Mt. Riga region.
- C. *flexilis*, Rudge; the Salisbury, Ct., station of Gray's Manual for this rare sedge is only ten or twelve miles from here. I have never yet found it growing. It may probably yet be detected in our own neighborhood in some of the moist woods, as the range of this rare plant is apparently northward and westward.
- C. *flava*, L.; very common in cold grounds; along R. R., below Ten Eyck's place.
- C. *Æderi*, Ehrh.; quite rare, but plentiful along W. border of Bryant Hoysradt Marsh—very springy; Hoag Pond Marsh banks.
- C. *filiformis*, L.; common; Bryant Hoysradt Marsh; Thompson Pond, etc.
- C. *lanuginosa*, Michx.; rather common; Shekomeko Creek, near Hoffman's Beech Swamp; Mulberry Meadow Swamp, etc.
- C. *riparia*, Curtis; not rare; along Trout Brook; Wappinger Creek Marshes; Round Pond, Stanford.
- C. *trichocarpa*, Muhl.; rather common; abundant along Roeliff Jansen's and Shekomeko Creeks; Thomas Meadow.
- C. *comosa*, Boott; common; along Stissing Pond, etc.
- C. *Pseudo-Cyperus*, L.; along ponds on Mt. Riga.
- C. *hystricina*, Willd.; very common.—Var. *Cooleyi*, occasionally met with.
- C. *tentaculata*, Muhl.; very common.—Var. *gracilis*, Boott, frequent.—Olney's new species, *C. Purshii*, (*C. tentaculata*, var. *rostrata*, Sartwell), also abounds.
- C. *intumescens*, Runge; common in our wet swamps.
- C. *Grayii*, Carey; this is another western sedge found growing at Pine Plains, the southeastern part of the state. Detected last season in the rich creek bottoms of the Roeliff Jansen's Kill, near Wm. Thompson's Place, above Ancram.
- C. *lupulina*, Muhl.; common; S. E. part of Strever's Swamp, etc. Several forms or varieties of this sedge are found in our swamps.
- C. *lupuliformis*, Sartwell; quite rare; Hunting R. R. Swamp, near Bethel.
- C. *retrosa*, Schw.; common; Peck's Swamp; Ten Eyck Swamp, etc.—Var. *Hartii*; abundant along W. side Hunting R. R. Swamp.
- C. *Schweinitzii*, Dew.; perhaps the most common in this region of Section *Vesicariæ*; Husted Meadow and G. & E. R. R. Bridge Swamp, Trout Brook; in *Cypripedium-spectabile* Swamp, S. E. Attlebury; swamps about Hot Ground, etc.
- C. *utriculata*, Boott; common and very variable; Bryant Hoysradt Marsh, etc.—Var. *furcata*; Shaw Pond, Stanford.

- C. monile*, Tuck.; quite rare; in lower swamps, along road from Stissing to Summit of Mountain, in Woodin's Old Coal Field; also, in swamp on Mt. Riga.
- C. Tuckermani*, Boott; not common; abundant along the Roeliff Jansen's Kill, near R. & C. R. R. Bridge, below Ancram; Governor William's Swamp-hole, towards Van Tassel Pond.
- C. bullata*, Michx.; only yet found in *Scirpus-fluviatilis* swamp or pond-hole, near Turpin Place.
- C. longirostris*, Torr. This sedge is sparingly found in the northern part of the State. I cannot find in *State Flora*, *Paine's Oneida Catalogue*, etc., that it has ever been found south of the Mohawk. *Gray's Manual* says "Northern New England to Wisconsin, and northward." I detected it last May (1878) under and on some shaded limestone cliffs, near the upper part of Snake Hill, about half a mile from the village of Pine Plains. The next month I again found a large patch of it along the Roeliff Jansen's Kill, Coons' Crossing, on old creek bottoms, near *C. Davisii* and *C. Grayii* stations.

For the accuracy of this list of Carices I am much indebted to Wm. Boott, Esq., of Boston, to whom was submitted a full suite of the Carices from this district, and who kindly revised my determinations.

GRAMINEAE.

- Leersia Virginica*, Willd.; common in all moist woods; Hoffman's Beech Woods, etc.—*L. oryzoides*, Swartz; common.
- Alopecurus aristulatus*, Michx.; common; Booth Swamp, etc.
- Phleum pratense*, L.; common.
- Vilfa vaginaeflora*, Torr.; rather common; sandy fields near the village.
- Sporobolus serotinus*, Gray; in wet meadows near Mt. Everett.
- Agrostis perennans*, Tuckerm.; shady places lower part of Stissing Mt.—*A. scabra*, Willd.; common; Eno Meadows by Wappingers Creek.—*A. vulgaris*, With.; common; Eno Meadows.—*A. alba*, L.; not common; May Bars on Stissing Mt., etc.
- Cinna arundinacea*, L.; common in most of our swamps:—*Var. pendula*, Gray; frequent, upper parts of Mt. Riga, Mt. Everett., etc.
- Muhlenbergia sobolifera*, Trin.; common; Snake Hill; Mt. Ararat, etc.—*M. glomerata*, Trin.; common; Hoag Pond Marsh, etc.—*M. Mexicana*, Trin.; common, with preceding.—*M. sylvatica*, Torr. & Gr.; rather common; Stissing Mt.—*M. Willdenovii*, Trin.; not rare; W. side of Snake Hill on cliffs; Silvernail Falls, etc.—*M. diffusa*, Schreber; not common, but abundant on Geo. Beckwith Orchard Hill, Stissing; also along S. E. border of Snake Hill.
- Brachyelytrum aristatum*, Beauv.; rather common; along swamps near Summit of Stissing Mt. etc.
- Calamagrostis Canadensis*, Beauv.; common in all the marshes and swamps; Hoysradt Marsh.
- Oryzopsis melanocarpa*, Muhl.; common; Stissing Mt.; Swamp E.

- of Ten Eyck's Place, etc.—*O. asperifolia*, Michx. quite common on upper part of Stissing Mt.—*O. Canadensis*, Torr.; rather abundant about Harrietta Falls and South of Summit of Stissing Mt.; also found in Ham's Ravine Woods.
- Aristida dichotoma*, Michx.; common in the sandy fields about Pine Plains.
- Eleusine Indica*, Gaertn.; becoming common in yards; Thomas Lane by mill, etc.
- Dactylis glomerata*, L.: not common; shady roads on Stissing Mt.
- Eatonia obtusata*, Gray; rather common; Southern part of Mt. Ararat; Mill Hill; and Little Stissing Mt.—*E. Pennsylvanica*, Gray; common; Rudd Ravine; along Roelif Jansen's Kill, etc.
- Glyceria Canadensis*, Trin.; rather common; Clark Meadow Swamps near Stissing Pond; Hoysradt Marsh.—*G. elongata*, Trin.; not common; but very abundant in Mulberry Meadow Swamps, S. end Stissing Mt.; also in swamp near Monument Mt.—*G. nervata*, Trin.; very common.—*G. pallida*, Trin.; not rare; swamp E. of Ten Eyck's; along Ancram Creek, etc.—*G. aquatica*, Smith; rather common; above Miller R.R. Bridge, Ancram Creek.; old saw-mill, above Bash-Bish Falls.—*G. fluitans*, R. Br.; not uncommon; swamp E. of Ten Eyck's, etc.—*G. acutiflora*, Torr.; one of the most common species of this genus in our swamps; Booth Swamp; Peck Swamp; Keller Bog-hole, by road, $\frac{1}{2}$ mile W. of village; Vosburgh Pond-hole, along R. & C. R. R., Ancram.
- Poa annua*, L.; not common; around Thomas Mill-pond, and sparingly elsewhere.—*P. compressa* L.; very common in dry fields and on rocks.—*P. serotina*, Ehrhart; rather common; around Keller Bog-hole, etc.—*P. pratensis*, L.; very common in fields and on mountains.—*P. trivialis*, L.; not rare; along Trout Brook, Park Meadow, etc.—*P. debilis*, Torr.; not common; G. Fingar Ravine, Gallatin; Rudd's Ravine; along Harrietta Falls Brook, Stissing Mt.—*P. alsodes*, Gray; Harrietta Falls; Fowler Spring, Little Stissing.
- Eragrostis reptans*, Nees.; quite rare; about Thomas Mill-pond.—*E. poaeoides*, Beauv., *Var. megastachya*, Gray; scarce; along roadsides W. of Jno. Righter's.—*E. pilosa* Beauv.; becoming common during last few years; along Race-course, Clark Land, etc.—*E. capillaris*, Nees.; not rare; along road to Notch, Little Stissing.—*E. pectinacea*, Gray; scarce; in sandy fields by Taghkanic Mts.
- Briza media* L.; in fields near Attlebury.
- Festuca tenella*, Willd.; not very common; on E. slope of Muggin House Rocks; Myer's Woods, Sudam Place.—*F. elatior* L.; very common everywhere, roadsides, meadows, etc.—*F. nutans*, Willd.; common; slope N. of Muggin House Rocks; Snake Hill; Rudd Ravine, etc.
- Bromus secalinus*, L.; in wheat fields.—*B. mollis*, L.; rare; S. end of Stissing Mt.—*B. Kalmii*, Gray; not common; Pogonia Swamp Meadow, near Attlebury; Snake Hill.—*B. ciliatus*, L.; common; L. Smith's W. Swamp; Mountain Swamps; *Var.*

- purgans, (6-7 ft. high) along Shekomeko Creek, Thomas Meadow.—*B. tectorum*, L.; along D. & C. R. R. by Ten Eyck Swamp.
- Phragmites communis*, Trin.; not common; outlet of Mud Pond; Drowned Land Marsh, N. W. Croghan Hill.
- Triticum repens*, L.; very common.—*T. violaceum*, Hornemann; not rare in this region; on ledges, S. S. E. of May Bars, Stissing Mt.; Ledges W. side Snake Hill; on rocks above Grass Pond, Mt. Riga, etc.—*T. caninum*, L. (?) on slope of Mt. Ararat.
- Elymus Virginicus*, L.; common; along Shekomeko Creek, Thomas Meadow, etc.—*E. Canadensis*, L.; common; with preceding along Shekomeko Ck.; along Roelif Jansen's Kill, etc.—*E. striatus*, Willd.; not uncommon; Thomas Meadow, along bank, W. of Jno. Cronk Saw-mill near Stissing; West Woods, Tanner Farm, Bethel.
- Gymnostichum Hystrix*, Schreb.; common; Jno. A. Thomson Woods, etc.
- Danthonia spicata* Beauv.; common everywhere in dry, sterile soil; Mt. Ararat, etc.—*D. compressa*, Austin; common along shady roads on Mt. Riga—to Grass Pond; also abundant in Notch near Mt. Everett. This species seem to require moister soil than *D. spicata*.
- Avena striata*, Michx.; detected a fine locality of this rare grass the past season, (1878) in Peck's Swamp, about three-fourths of a mile from village. A month later found it again in Drowned Lands Swamp.
- Trisetum palustre*, Torr.; rare; only found in Jno. White (Velie) Swamp.
- Aira flexuosa*, L.; rather frequent; Sherwood-lot Cliffs, Stissing Mt.; Monument Mt., etc.
- Holcus lanatus*, L.; scarce; along Wappinger's Creek, near Stanfordville; Myers Meadow, Sudam Place.
- Anthoxanthum odoratum*, L.; rather common in meadows; Jno. Righter Meadows, etc.
- Phalaris arundinacea*, L.; common in the marshes, as Hoysradt Marsh, Sackett's Marsh, Keller Bog-hole, etc. *Var. picta* has run wild along border of Booth Swamp.
- Paspalum setaceum*, Michx., in sandy fields near Mt. Riga.
- Panicum filiforme*, L.; scarce in a few sandy fields.—*P. glabrum*, Gaudin; quite common; along D. & C. R. R. and P. & E. R. R. and in some fields.—*P. sanguinale*, L.; a most common and troublesome weed, particularly in gardens, in this region.—*P. agrostoides*, Spreng.; rare; along W. shore of Stissing Point, and occasionally elsewhere.—*P. proliferum*, Lam. (?) along shores, Thompson Pond, etc.—*P. capillare*, L.; very common.—*P. latifolium*, L.; common along base of mountain, etc.—*P. clandestinum*, L.; very common in low thickets along Shekomeko Ck. and Roelif Jansen's Kill, etc.—*P. microcarpon*, Muhl.; Little Stissing Mt.—*P. xanthophysum*, Gray; detected the past season on Mt. Riga, east of old Robert's Place, and North-east of Monument Mt.—*P. dichotomum*, L.; very common and

XXXII.

exceedingly variable. This species probably includes too much under one name.—*P. depauperatum*, Muhl.; quite common; Stissing Mt. and also frequent elsewhere.—*P. Crus-galli*, L.; very common.

Setaria glauca, Beauv.; very common.—*S. viridis*, Beauv.; rather rare, but found in some cultivated places.

Andropogon furcatus, Muhl.; rather common; W. base of Snake Hill; Risedorf Hill; Attlebury Hill, etc.—*A. scoparius*, Michx.; common in dry sterile soil.—*A. Virginicus*, L.; on knolls near ponds, Mt. Riga.

Sorghum nutans, Gray; common; with *Solidago rigida*, E. base of Mt. Ararat, etc.

I am entirely indebted for the accuracy of the foregoing list of Gramineae to my old and esteemed friend, Dr. Geo. Thurber of Passaic, N. J., who has repeatedly examined and corrected suites of Grasses from this region.

974.703

• ❁ A LIST ❁ •

— OF —

PLANTS

— IN THE —

VICINITY OF UTICA,

— FOR —

April, May and a portion of June,

— BY —

from DR. J. V. HABERER.

Published by the Asa Gray Botanical Club.

UTICA, N. Y.:

L. C. CHILDS & SON, PRINTERS AND BOOK-BINDERS.
1888.

• ❁ A LIST ❁ •

— OF —

PLANTS

— IN THE —

VICINITY OF UTICA,

— FOR —

April, May and a portion of June,

— BY —

DR. J. V. HABERER.

Published by the Asa Gray Botanical Club.

UTICA, N. Y.:

L. C. CHILDS & SON, PRINTERS AND BOOK-BINDERS.
1888.



PREFACE.

To the members of the Asa Gray Botanical Club :

The following list of plants was compiled when the club was first organized, and is now published at your solicitation. It was intended as a guide to the phanogamous and vascular cryptogamous plants found growing spontaneously within a radius of seven miles of Utica during the spring months.

Only those who have been engaged on a similar task can form a just estimate of the labor incident to its preparation.

It is a difficult matter to draw a line between the early or spring flowers, and the later or summer blooming ones, for the season which presents the greatest variation in the time of flowering is the spring. I cannot here enter into a lengthy statement of how widely the seasons may differ, but will offer in illustration of this, for purposes of comparison, a list of dates when our earliest spring flower, *i. e.*, *Hepatica*, was first observed in bloom during a period of seventeen years. [See list A.]

The list therefore includes the plants detected in flower from the opening of the season to about the second week in June. The flowering time of most species has been as definitely stated as possible, and also the maturing of fruit, when deemed necessary.

The region covered by this list lies between Sterling Creek on the east, Oriskany Creek on the west, and from the summit of the Deerfield Hills on the north, to the sphagnum pond on Frankfort Hill, generally known as Wetmore's, on the south—thus including Utica and portions of the towns of Frankfort, Schuyler, New Hartford, Whitestown, Marcy and Deerfield. Localities of rare plants have been carefully noted, and for convenience of many pursuing the study of botany, general localities have been described, such as ravines, hill-sides, shady woods, swamps, meadows, pastures, rich soils, etc., and to avoid repetition, unless expressly stated, plants are to be understood as common in the localities mentioned. It has been my aim to include such only as I can vouch for from personal observation, and a few that have been reported as formerly growing in this region, but probably now extinct.

My endeavor has been to conform as nearly as possible to the latest and most natural system of classification.

Acknowledgements are due to many botanical friends, who have rendered invaluable hints through their catalogues, also to you, the members of the Asa Gray Botanical Club, for assistance in preparing the list for publication.

In conclusion, do not rely on this list for too great assistance in the analysis of plants; it should rather serve the purpose of a diary for field notes. "The best part of botany is not in the books, but it is in that boundless, outdoor life, whose interest, beauty and mystery is with us from the cradle to the grave, forever stimulating inquiry and ever richly rewarding patient and loving toil."

JOSEPH V. HABERER.

President.

Utica, N. Y., May 1, 1888.

LIST A.

A list of the dates when *Anemone acutiloba*, Lawson, (*Hepatica acutiloba*, DC.), was first observed in bloom :

May 4, 1872.	April 16, 1881.
April 24, 1873.	April 20, 1882.
April 19, 1874.	April 10, 1883.
April 27, 1875.	April 10, 1884.
April 27, 1876.	April 19, 1885.
April 12, 1877.	April 1, 1886.
April 1, 1878.	April 13, 1887.
April 22, 1879.	April 14, 1888.
April 28, 1880.	

By reference to my note book, I find that up to May 1st, 1878, I have recorded 110 different species in bloom; May 1st, 1881, 50; May 1st, 1886, 80; May 1st, 1888, 20; to June 1st, '74, 90; June 1st, '75, 100; June 1st, '76, 96; June 1st, '77, 110; June 1st, '78, 210; '79, 191; '80, 102; '81, 160; '83, 106; '85, 150; '86, 220. Record for '82 and '84 lost, and none made in 1887.

J. V. H.

PHÆNOGAMIA.

DICOTYLEDONS.

Ranunculaceæ—Crowfoot Family.

- Anemone nemorosa**, L. Wind-flower. Wood Anemone. Deer-field ravine. Frankfort hill. First half of May.
- Anemone Hepatica**, L. (*Hepatica triloba*, Chaix.) Round lobed Hepatica. Shady woods and exsiccated swamps. Uncommon. Early in May.
- Anemone acutiloba**, Lawson. (*Hepatica acutiloba*, DC.) Acute-lobed Hepatica. Our earliest spring flower. April.
- Anemone dichotoma**, L. Round-headed Anemone. Mohawk flats. First week in June, July.
- Thalictrum dioicum**, L. Early Meadow Rue. Ravine-sides. Oriskany and Deerfield. Frequent. First half of May.
- Ranunculus abortivus**, L. Small-flowered Crowfoot. Damp places. May and June.
- Ranunculus recurvatus**, Poir. Hooked Crowfoot. Rich woods. Springy hillsides in ravines. May and June.
- Ranunculus septentrionalis**, Poir. Creeping Crowfoot. Mohawk flats. Swampy places. Last of May to August.
- Ranunculus bulbosus**, L. Bulbous Buttercup. Roadsides, woods, ravines. May to July.
- Ranunculus acris**, L. Acrid Buttercup. Everywhere. May to October.
- Caltha palustris**, L. Cowslip. Marsh Marigold. Swampy places. May and June.
- Trollius laxus**, Salisb. Globe-flower. Arbor vitæ swamp, near the old Chenango canal, just south of Utica; rare. Common in the swamps of South Herkimer County. April to June.
- Coptis trifolia**, Salisb. Goldthread. Bogs and evergreen shades. April to June.
- Aquilegia Canadensis**, L. Wild Columbine. Slaty, rocky soil. May to July.
- Aquilegia vulgaris**, L. Columbine. Waste places about old houses. In a pasture near Yorkville. May to July.
- Actæa spicata**, L., var. *rubra*, Ait. Red Baneberry. Ravines and thickets. Early in May; fruit in August.
- Actæa alba**, Bigel. White Baneberry. Ravines and rich woods, most abundant on the hills. Last half of May, fruit in September.

Berberidaceæ—Barberry Family.

- Berberis vulgaris**, L. Barberry. Woods and flats of streams. New Hartford. May or June, fruit in September.
- Caulophyllum thalictroides**, Mx. Blue Cohosh. Pappoose root. Ravines and woods. April or May, fruit in June or July.
- Podophyllum peltatum**, L. Mandrake. May-Apple. Rich soil. May or early in June, fruit in August.

Nymphaeaceæ—Water-Lily Family.

Nuphar advena, Ait. Yellow Pond-lily. Spatter-dock. Ponds. May to August.

Sarraceniaceæ—Pitcher Plant Family.

Sarracenia purpurea, L. Pitcher Plant. Sphagnum swamps. Frankfort, Whitestown. First half of June.

Papaveraceæ—Poppy Family.

Chelidonium MAJUS, L. Celandine. Roadsides, waste places. May to September.

Sanguinaria Canadensis, L. Bloodroot. Ravine-sides and woods. April or early in May.

Fumariaceæ—Fumitory Family.

Dicentra cucullaria, DC. Dutchman's breeches. April or early in May.

Dicentra Canadensis, DC. Squirrel corn. Both species common in ravines and woods. April or early in May.

Fumaria OFFICINALIS, L. Fumitory. Occasional in waste places. May to September.

Cruciferæ—Mustard Family.

Nasturtium OFFICINALE, R. Br. Water Cress. Cold brooks. Last of May to November.

Nasturtium ARMORACIA, Fries. Horseradish. Banks of the Mohawk. Latter part of May, June.

Dentaria diphylla, L. Pepper root. Crinkle root. Rich soil. Early in May.

Dentaria laciniata, Muhl. Tooth root. Ravines and rich woods. April or early in May.

Dentaria maxima, Nutt. Great pepper root. Deerfield ravine in rich soil. Formerly on the flats of Starch Factory creek, east of Utica, but now all gone. Forms between this species and *D. diphylla* are not uncommon. A striking peculiarity, noted by Rev. J. A. Paine, *i. e.*, a secondary stem from the axil of the highest leaf, having lanceolate leaves and a raceme of 1-3 flowers, has been observed on the more robust plants. Well developed fruit rarely seen. Local. Middle of May.

Dentaria heterophylla, Nutt. Reported by Rev. J. A. Paine as growing along bottoms of Deerfield creek; is undoubtedly a small form of *D. maxima*, Nutt. Middle of May.

Cardamine rhomboidea, DC. Spring Cress. Damp woods. May and June.

Cardamine rhomboidea, DC., var. *purpurea*, Torr. Purple Cress. Along streams, swampy places. Scarce. April or early in May.

Cardamine pratensis, L. Cuckoo flower. Common in wet places on the Mohawk flats. May or early in June.

Cardamine hirsuta, L. Bitter Cress. In wet, miry places. April to November.

Cardamine hirsuta, L., var. *sylvatica*, Gray. In drier, shady places. Not common. May to July.

Barbarea vulgaris, R. Br. Yellow Rocket. A weed in wet grounds and along roadsides. May to November.

Arabis dentata, T. & G. Dentate-leaved Rock cress. Two plants found in woods on the Mohawk flats, three miles east of Utica, in May, 1878.

- Sisymbrium OFFICINALE**, Scop. Hedge Mustard. Waste places. May to November.
- Brassica CAMPESTRIS**, L. Waste grounds. May and June.
- Brassica NIGRA**, Koch. Black Mustard. Fields and waste lots. May to August.
- Brassica SINAPISTRUM**, Boiss. Charlock. Roadsides, fields and waste lots. May to November.
- Alyssum MARITIMUM**, L. Sweet Alyssum. Spontaneous about gardens. May and June.
- Camelina SATIVA**, Crantz. False Flax. Frequent along the Central railroad. May to September.
- Capsella BURSA-PASTORIS**, Mönch. Shepherd's Purse. A weed. April to November.

Violaceæ—Violet Family.

- Solea concolor**, Ging. (*Ionidium concolor*, Benth. & Hook.) Green Violet. Formerly on the Mohawk flats, near Little Lake. PAINE'S CATALOGUE. May or June.
- Viola rotundifolia**, Mx. Round-leaved violet. Ravines and rich woods. April and May.
- Viola primulifolia**, L. Primrose-leaved violet. Wet meadows, swamps, Oriskany; rare. May and June.
- Viola blanda**, Willd. Sweet white violet. Ravines, rich woods and swamps. April to June.
- Viola blanda**, Willd., var. *palustriformis*, Gray. Ravine-sides and sandy woods. (The violet that was sent to the late Prof. Asa Gray for determination.) May and June.
- Viola blanda**, Willd., var. *renifolia*, Gray. Tamarack and arbor vitae swamps in shade. May.
- Viola Selkirkii**, Ph. Selkirk's violet. Mossy ravines, damp woods. Some seasons it remains in flower a week or longer. April to middle of May.
- Viola ODORATA**, L. Sweet violet. Lawns, gardens. April or May.
- Viola palmata**, L., var. *cucullata*, Gray. Common blue violet. Wet meadows, woods. Flowers white occasionally. May and June.
- Viola rostrata**, Muhl. Long-spurred violet. Ravines, rich woods. May and June.
- Viola canina**, L., var. *Muhlenbergii*, Gray. Dog violet. Swamps and ravines. May and June.
- Viola striata**, Aiton. Pale violet. Alluvial soil. Common in thickets along the Mohawk. May to July.
- Viola Canadensis**, L. Canada violet. Rich woods and ravines. May to August.
- Viola pubescens**, Aiton. Downy yellow violet. Woods and ravines. April to June.
- Viola pubescens**, Ait., var. *scabriuscula*, T. & G. Dry woodlands along Starch Factory creek. May.
- Viola TRICOLOR**, L. Common pansy. Escaped from cultivation in several places. May, June.

Caryophyllaceæ—Pink Family.

- Stellaria MEDIA**, Sm. Chickweed. Very common. March to November.
- Stellaria longifolia**, Muhl. Long-leaved stitchwort. Wet meadows. Mohawk flats. Last of May, June.

Stellaria borealis, Bigel. Northern stellaria. Swampy places. Along Starch Factory Creek and the old Chenango canal. Opposite Oriskany. May and June.

Cerastium vulgatum, L. Mouse-eared chickweed. Scarce; in barren fields. May to August.

Cerastium viscosum, L. Common chickweed. Common in waste ground. May to October.

Cerastium arvense, L. Field chickweed. Cultivated grounds. Ravine in Schuyler. Rare. May to August.

Sagina procumbens, L. Pearlwort. Streets of Utica. May to August.

Arenaria stricta, Watson. Sandwort. Sandy soil in Marey. Uncommon. May to July.

Arenaria lateriflora, L. Banks of the Mohawk. Rare. May and June.

Portulacaceæ—Purslane Family.

Claytonia virginica, L. Claytonia. Alluvial soil. Common in thickets along the Mohawk. First half of May.

Claytonia caroliniana, Mx. Spring beauty. Woods and ravines. April and May.

Malvaceæ—Mallow Family.

Malva rotundifolia, L. Common mallow. Waste places. May to November.

Geraniaceæ—Geranium Family.

Geranium maculatum, L. Wild Crane's bill. Moist meadows. Whitestown. Last of May to August.

Geranium robertianum, L. Herb Robert. Ravine bottoms. Moist woods. Last of May to October.

Floerkea proserpinacoides, Willd. False Mermaid. Wet woods Mohawk flats three miles east of Utica. Abundant opposite Oriskany. Last of May or early in June.

Oxalis acetosella, L. Wood sorrel. Rich woods on the hills. May to August.

Oxalis corniculata, L., var. *stricta*, Sav. Yellow sorrel. Waste grounds and fields. Variable. May to September.

Rutaceæ—Rue Family.

Xanthoxylum americanum, Mill. Prickly Ash. Toothache tree. Banks of the Mohawk. Frequent opposite Oriskany. Schuyler. Borders of fields just east of Utica. Early in May, fruit in June.

Illicineæ—Holly Family.

Nemopanthes canadensis, DC. Mountain Holly. Swamps, Frankfort, Whitestown. May or early in June, fruit in July.

Rhamnaceæ—Buckthorn Family.

Rhamnus cathartica, L. Buckthorn. Hedges. Private grounds. May, fruit in September.

Rhamnus alnifolia, L'Her. Swamps near Oriskany. Rare. Last of May.

Vitaceæ—Vine Family.

Ampelopsis quinquefolia, Mx. Woodbine. Woods and stream-sides. May and June.

Vitis cordifolia, Lam. Frost Grape. Mohawk flats. Last of May, fruit in October.

Vitis Labrusca, L. Wild Grape. Ravines and woods. May or early in June, fruit in October.

Vitis æstivalis, Mx. Summer Grape. Woods and along streams. Uncommon. Last of May, fruit in September.

Sapindaceæ—Soapberry Family.

Staphylea trifolia, L. Bladder-Nut. Thickets on Mohawk flats. May or early in June, fruit in July.

Acer Pennsylvanicum, L. Striped Maple. Ravines and woods. Latter part of May, fruit in June.

Acer spicatum, Lam. Mountain Maple. Swamps and along streams. May or early in June, fruit in July.

Acer saccharinum, Wang. Sugar or Hard Maple. A valuable tree. Yields maple sugar. May, fruit in July.

Acer saccharinum, Wang., var. *nigrum*, T. & G. Black Maple. Woods. Scarce. May, fruit in July.

Acer dasycarpum, Ehrh. Silver or White Maple. Mohawk flats. Stream-sides. April or May, fruit in June.

Acer rubrum, L. Red or Swamp Maple. Swamps and along streams. April, fruit in June.

Æsculus hippocastanum, L. Horse Chestnut. Planted for ornament. Spontaneous. May, fruit in September.

Leguminosæ—Pulse Family.

Medicago lupulina, L. Black Medick. Nonesuch. Waste places. May to October.

Trifolium pratense, L. Red Clover. Meadows and roadsides. May to October.

Trifolium repens, L. White Clover. Meadows and roadsides. May to October.

Trifolium hybridum, L. Hybrid Clover. Along roadsides; Frankfort, New Hartford and Deerfield. May to October.

Robinia pseudacacia, L. Locust. Well established along roadsides; New Hartford. Last of May or early in June.

Rosaceæ—Rose Family.

Prunus americana, Marsh. Wild Plum. Roadsides. Banks of the Mohawk. April or early in May, fruit in August.

Prunus spinosa, L. Thorny Plum. Occasional along roadsides. Asylum grounds. May or June.

Prunus domestica, L. Garden Plum. Sometimes spontaneous. May.

Prunus pennsylvanica, L. Wild Red Cherry. Borders of woods. May, fruit in August.

Prunus virginiana, L. Choke Cherry. Banks of the Mohawk. May or early in June, fruit in August.

Prunus serotina, Ehrh. Wild Black Cherry. Wooded hillsides. Mohawk flats. May or early in June, fruit in September.

- Prunus vulgaris**, L. Sour Cherry. Spontaneous in gardens. May.
- Geum rivale**, L. Purple Avens. Arbor vitæ swamps. Mohawk flats. Last of May to July.
- Neillia opulifolia**, Benth. & Hook. (*Spiræa opulifolia*, L.) Nine-bark. A single clump of bushes on the edge of a ditch, Park avenue, Utica, just north of the Central railroad tracks. First found June 13, 1872. Early in June.
- Waldsteinia fragarioides**, Tratt. Barren Strawberry. Ravine-sides, swampy places. Last of May to July.
- Potentilla argentea**, L. Silvery Potentilla. Meadows and pastures, New Hartford, Whitestown. May to September.
- Potentilla Canadensis**, L. var. simplex, T. & G. Cinque Foil Five Finger. Meadows and pastures. Last of May to August.
- Fragaria Virginiana**, Duchesne. Wild Strawberry. Everywhere. April to October.
- Fragaria vesca**, L. Woodland, Wild Strawberry. Ravine-sides, rich woods. May and June.
- Dalibarda repens**, L. False Violet. Ravine-sides, swampy woods. May to August.
- Rubus triflorus**, Rich. Dwarf Raspberry. Ravine-sides, wet woods, swamps. April to June.
- Rubus strigosus**, Mx. Red Raspberry. Clearings, roadsides, borders of woods and thickets. May or June, fruit in July. Has been observed in flower and fruit in October.
- Rubus occidentalis**, L. Black Raspberry. Roadsides and thickets. June, fruit in July or August.
- Rubus villosus**, Ait. Blackberry. Clearings, roadsides and along streams. June, fruit in August and September.
- Cratægus OXYACANTHA**, L. Hawthorn. Roadsides, flats of streams. May, fruit in Sept.
- Cratægus coccinea**, L. Scarlet fruited Thorn. Ravine-sides. May or June, fruit in September.
- Cratægus tomentosa**, L. Black Thorn. Pastures. Mohawk flats. May or early in June, fruit in September.
- Cratægus punctata**, Jacq. Dotted Thorn. Frequent. Mohawk flats. May or early in June, fruit in September.
- Cratægus Crus-galli**, L. Cockspur Thorn. Hedges, stream-sides. Last of May, June, fruit in September.
- Rosa blanda**, Ait. Early Wild Rose. Mohawk flats. Scarce. May or June.
- Pirus coronaria**, L. American Crab Apple. Formerly in woods near reservoir, New Hartford. May.
- Pirus MALUS**, L. Apple. Spontaneous along roadsides; in pastures and ravines. May.
- Pirus arbutifolia**, L. f. Choke Berry. Sphagnum swamps, Frankfort, Whitestown. Scarce. May or June.
- Pirus arbutifolia**, L. f., var. melanocarpa, Hook. Swamps. Last of May or early in June.
- Amelanchier Canadensis**, T. & G. Shadbush. June or Service Berry. Woods and ravine sides. Might be of value if cultivated. April or May, fruit in July.
- Amelanchier Canadensis**, T. & G., var. (?) oblongifolia, T. & G. Along streams, swamps. Deerfield, Frankfort. May and June.

Saxifragaceæ—Saxifrage Family.

- Ribes Cynosbati**, L. Wild Gooseberry. Ravine sides. Berries prickly, but edible. May, fruit in July.
- Ribes oxycanthoides**, L. Smooth Gooseberry. Swampy places. New Hartford, Deerfield. Frequent May; Fruit in July.
- Ribes prostratum**, L'Her. Prostrate, or Skunk Currant. Rich woods. Frankfort Hill. Uncommon. Last of May, fruit in June.
- Ribes floridum**, L'Her. Wild Black Currant. Swampy places. May, fruit in July.
- Ribes rubrum**, L. Red Currant. Occasional in swampy woods. May, fruit in July.
- Saxifraga Pennsylvanica**, L. Swamp Saxifrage. Wet places. Mohawk flats. May and June.
- Mitella diphylla**, L. Mitrewort. Bishop's Cap. Ravines and woods. April and May.
- Mitella nuda**, L. Naked Mitrewort. Evergreen shades. Rare except on the hills. Last of May, June.
- Tiarella cordifolia**, L. False Mitrewort. Ravine-sides and woods. May.
- Chrysosplenium Americanum**, Schw. Golden Saxifrage. Along cold streams, swampy places. April and May.

Crassulaceæ—Orpine Family.

- Sedum ternatum**, Mx. Stone Crop. Escapes from cultivation. May or June.

Onagraceæ—Evening Primrose Family.

- Oenothera pumila**, L. Dwarf Evening Primrose. Meadows and pastures. Early in June to August.

Umbelliferæ—Parsley Family.

- Thaspium aureum**, Nutt. Meadow Parsnip. Wet meadows. May and June.
- Osmorrhiza brevistylis**, DC. Hairy Sweet Cicely. Woods and ravines. May and June.
- Carum CARUI**, L. Caraway. Fields and along roadsides. Last of May to August.

Araliaceæ—Ginseng Family.

- Aralia nudicaulis**, L. Wild Sarsaparilla. Ravine-sides and woods. Last of May or early in June.
- Aralia trifolia**, Dec. & Planch. Ground-nut. Dwarf Ginseng. Woods and ravines, in rich soil. April or May.

Cornaceæ—Dogwood Family.

- Cornus Canadensis**, L. Dwarf Cornel. Bunch-berry. Swampy woods. Last of May, June.
- Cornus circinata**, L'Her. Round-leaved Cornel. Ravine-sides. Deerfield and Marcy. Second week in June.

- Cornus stolonifera**, Mx. Red Osier Dogwood. Swamps and along streams. Early in June.
Cornus alternifolia, L. Alternate-leaved Cornel. Ravines and open woods. May or early in June.
Nyssa multiflora, Wang. Pepperidge. Mohawk flats. Paine's Catalogue. April or May.

Caprifoliaceæ—Honeysuckle Family.

- Sambucus racemosa**, L. Red-berried Elder. Ravines, swampy places. April and May.
Viburnum lantanoides, Mx. Hobble bush. Wayfaring tree. Ravine-sides and rich woods. May.
Viburnum Opulus, L. Cranberry tree. Swamps on Mohawk flats. Early in June.
Viburnum acerifolium, L. Dockmackie. Woods and ravines. Early in June.
Viburnum dentatum, L. Mohawk flats. Second week in June.
Viburnum cassinoides, L. Withe-rod. Upland swamps. Frankfort, Whitestown. Early in June.
Viburnum Lentago, L. Sweet Viburnum. Along streams. Mohawk flats. Last of May, June.
Linnæa borealis, Gronov. Twin-flower. Mossy ravines, Deerfield, Marcy. First week in June to August.
Lonicera ciliata, Muhl. Fly Honeysuckle. Woods, ravines and swamps. April or May.
Lonicera TARTARICA, L. Tartarian Honeysuckle. Escaped from cultivation on Steele's Hill, South of Utica. May, June.
Diervilla trifida, Mœnch. Bush Honeysuckle. Ravine sides, shady woods. Early in June.

Rubiaceæ—Madder Family.

- Galium Aparine**, L. Cleavers. Shady woods. May and June.
Galium trifidum, L. (G. tinctorium, L.) Bedstraw. Mohawk flats. Second week in June.

Valerianaceæ—Valerian Family.

- Valerianella chenopodifolia**, DC. (Fedia Fagopyrum, T. & G.) Corn Salad. Formerly near Little Lake. Near U. & B. R. R. R. Mohawk flats, opposite Utica. Rare. Early in June.

Compositæ—Composite Family.

- Tussilago FARFARA**, L. Coltsfoot. Flats of streams, railroad embankments. April and May.
Erigeron bellidifolius, Muhl. Robin's Plantain. Hillsides along streams. May and June.
Erigeron Philadelphicus, L. Fieabane. Wet meadows, swamps, ravines. Early in June to July.
Antennaria plantaginifolia, Hook. Plantain leaved Everlasting. Pastures, ravines. May.
Senecio aureus, L. Golden Ragwort, Squaw weed. Swampy places. May or early in June.
Senecio VULGARIS, L. Groundsel. A weed in waste lots. April to October.
Taraxacum officinale, Weber. Dandelion. Everywhere. April to November.

Ericaceæ—Heath Family.

- Gaylussacia resinosa**, T. & G. Huckleberry. Sandy woods, swamps, Frankfort, Whitestown. Early in June, fruit in September.
- Vaccinium Pennsylvanicum**, Lam. Dwarf Blueberry. Swamps and sandy woods. Last half of May, fruit in July.
- Vaccinium Canadense**, Kalm. Canada Blueberry. Swamps, Frankfort, Schuyler. Early in June, fruit in July.
- Vaccinium corymbosum**, L. Swamp Blueberry. Upland swamps. May and June, fruit in August.
- Vaccinium corymbosum**, L., var. *atrococeum*, Gray. Frankfort Hill. Scarce, June.
- Vaccinium Oxycoccus**, L. Small Cranberry. Sphagnum swamps. Frankfort, Whitestown. June.
- Chiogenes hispidula**, T. & G. Creeping Snowberry. Evergreen woods and swamps. May, fruit in July.
- Cassandra calyculata**, Don. Leather Leaf. Sphagnum bogs, Frankfort and Graefenberg Hills. May.
- Andromeda polifolia**, L. Wild Rosemary. Sphagnum bogs, Frankfort and Graefenberg Hills. May or early in June.
- Ledum latifolium**, Ait. Labrador Tea. Upland swamps, Frankfort. May or early in June.
- Kalmia angustifolia**, L. Sheep Laurel. Swamps, Frankfort and Whitestown. Early in June.
- Kalmia glauca**, Ait. Pale Laurel. In a swamp near Whitesboro. PROF. E. HUNT, IN HERB. May or early in June.
- Rhododendron nudiflorum**, Torr. Pinxter bloom. Upland swamps, Frankfort and Whitestown. May and June.

Primulaceæ—Primrose Family.

- Trientalis Americana**, Ph. Star-flower. Ravines and rich woods. Last of May or early in June.
- Lysimachia NUMMULARIA**, L. Moneywort. Naturalized along roadsides. New Hartford. Mohawk flats near Oriskany. May and June.

Oleaceæ—Olive Family.

- Fraxinus Americana**, L. White Ash. Ravines and moist woods. May, fruit in August.
- Fraxinus sambucifolia**, Lam. Black Ash. Swamps. April or May, fruit in July.

Apocynaceæ—Dog-bane Family.

- Vinca Minor**, L. Periwinkle. Escapes from cultivation. Improperly called Myrtle. May.

Gentianaceæ—Gentian Family.

- Menyanthes trifoliata**, L. Buckbean. Upland sphagnum swamps. Frankfort, New Hartford. Last of May, June.

Polemoniaceæ—Phlox Family.

- Phlox divaricata**, L. Divaricate Phlox. Flats of streams Rich woods. May and June.

Borraginaceæ--Borrase Family.

- Lithospermum** ARVENSE, L. Corn Gromwell. Frequent along railroads. May and June.
- Myosotis** PALUSTRIS, With. Forget-me-not. Escaped from cultivation in many places. May to September.
- Myosotis verna**, Nutt. Myosotis. Barren fields about Utica. Scarce. May to July.
- Cynoglossum** OFFICINALE, L. Hound's-tongue. Waste grounds, pastures, ravines. Last of May to middle of July.
- Symphytum** OFFICINALE, L. Comfrey. Roadsides, pastures, flats of streams. Early in June to August.

Hydrophyllaceæ--Water-leaf Family.

- Hydrophyllum Virginicum**, L. Water-leaf. Meadows, borders of woods and thickets. June.

Scrophulariaceæ--Figwort Family.

- Collinsia verna**, Nutt. Innocence. Formerly on the Mohawk flats near Little Lake. Paine's Catalogue. May.
- Scrophularia nodosa**, L., var. Marilandica, Gray. Figwort. Along roadsides and railroads, borders of woods. First week in June to August.
- Veronica officinalis**, L. Common Speedwell. Ravines and pastures. May to August.
- Veronica serpyllifolia**, L. Thyme-leaved Speedwell. Meadows and pastures. May to July.
- Veronica Americana**, Schw. Wet, swampy places. Early in June to September.
- Veronica scutellata**, L. Ditches on the Mohawk flats. May to July.
- Veronica peregrina**, L. Purslane Speedwell. Waste grounds. May to July.
- Veronica** ARVENSIS, L. Corn Speedwell. Cultivated grounds. Sandy hillsides and pastures. May to July.
- Pedicularis Canadensis**, L. Lousewort. Steep sides of Oriskany creek, opposite the burnt factory. Last of May, June.

Labiataæ--Mint Family.

- Nepeta** GLECHOMA, Benth. Ground Ivy. Gill. Waste grounds, ravines and woods. May to August.

Plantaginaceæ--Plantain Family.

- Plantago** LANCEOLATA, L. Rib-grass. English Plantain. Waste grounds. May to October.

Chenopodiaceæ--Goosefoot Family.

- Chenopodium** BONUS-HENRICUS, L. Good-King-Henry. Streets of Utica. Roadsides, Frankfort, New Hartford. Last of May, October.

Polygonaceæ--Buckwheat Family.

- Rumex** ACETOSELLA, L. Field or Sheep Sorrel. Fields and waste grounds. May to October.

Aristolochiaceæ—Birthwort Family.

Asarum Canadense, L. Wild Ginger. Ravine-sides and moist woods. April or May.

Lauraceæ—Laurel Family.

Lindera Benzoin, Meisn. Spice, Fever or Benjamin bush. Damp woods, swampy places. April or early in May. Fruit scarce.

Thymeleaceæ—Mezereum Family.

Dirca palustris, L. Leatherwood, Moosewood. Flats of streams, moist woods. April or early in May. Fruit in June.

Elæagnaceæ—Oleaster Family.

Shepherdia Canadensis, Nutt. Shepherdia. Slaty sides of Deer-field ravine. Middle of May, fruit in June.

Loranthaceæ—Mistletoe Family.

Arceuthobium pusillum, Peck. Arceuthobium. Parasitic on *Picea nigra*, Link. Abundant on stunted, frequent on healthy trees, in the swamps, on the heights of Frankfort, Herkimer county. May to October.

Euphorbiaceæ—Spurge Family.

Euphorbia CYPARISSIAS, L. Cypress Spurge. Escaped to roadsides. May and June.

Urticaceæ—Nettle Family.

Ulmus fulva, Mx. Slippery Elm. Along streams. Mohawk flats. April or May, fruit in June.

Ulmus Americana, L. White or American Elm. Everywhere. April or May, fruit in June.

Ulmus racemosa, Thomas. Corky, Racemed Elm. Mohawk flats and along streams. April or May, fruit in June.

Platanaceæ—Plane-Tree Family.

Platanus occidentalis, L. Sycamore. Button Ball. Along streams. Mohawk flats. May.

Juglandaceæ—Walnut Family.

Juglans cinerea, L. Butternut. Woods, stream-sides. Mohawk flats. May or early in June, fruit last of September.

Carya alba, Nutt. Shagbark Hickory. Frequent on the Mohawk flats. May or early in June, fruit in October.

Carya amara, Nutt. Bitternut. Ravines, woods and pastures. Mohawk flats. Last of May or early in June, fruit in October.

Carya porcina, Nutt. Pig-nut. Meadows and pastures. Not common. Last of May, fruit in October.

Betulaceæ—Birch Family.

- Betula lenta**, L. Cherry Birch. Ravines. Scarce. First half of May.
Betula lutea, Michx. f. Yellow Birch. Woods and ravines. First half of May.
Betula nigra, L. River or Red Birch. Marcy, Deerfield. Rare. Last half of May.
Alnus serrulata, Willd. Smooth Swamp Alder. Swamps, Mohawk flats. March or April.

Cupuliferæ—Oak Family.

- Carpinus Americana**, Lam. Blue or Water Beech. Along streams. Early in May, fruit in August.
Ostrya Virginica, Willd. Ironwood. Hop-hornbeam. Along streams, woods. Early in May, fruit in August.
Corylus Americana, Walt. Hazel-nut. Filbert. Ravine-sides, woodlands, Mohawk flats. April or early in May, fruit in September.
Quercus alba, L. White Oak. Woods. Scarce. Last half of May, fruit in October.
Quercus bicolor, Willd. Swamp Oak. Mohawk flats. Last of May, fruit in October.
Quercus rubra, L. Red Oak. Woods and ravines. Mohawk flats. Last half of May, fruit in October.
Fagus ferruginea, Ait. Beech. Woods and ravines. Last half of May, fruit in October.

Salicaceæ—Willow Family.

Flowers in April or May. Fruit in May or June. Leaves in August or September.

- Salix discolor**, Muhl. Glaucous Willow. Wet places. April, May.
Salix sericea, Marsh. Silky Willow. Deerfield and Marcy. Scarce. May.
Salix petiolaris, Smith. Petioled Willow. Frequent along the Mohawk. May and June.
Salix PURPUREA, L. Purple Willow. James street, Utica. Mohawk flats. May.
Salix VIMINALIS, L. Basket Osier. Uncommon. This and the preceding species have been cultivated for basket work. May.
Salix rostrata, Rich. Livid Willow. Not rare. Schuyler. May, June.
Salix nigra, Marsh. Black Willow. Abundant on the Mohawk flats. May, June.
Salix FRAGILIS, L., Brittle Willow. Along streams. Mohawk flats. May, June.
Salix FRAGILIS, L., var. *decipiens*, Hoffm. Mohawk flats. May, June.
Salix ALBA, L. White Willow. Along roadsides and streams. May, June.
Salix ALBA, L., var. *vitellina*, Koch. Mohawk flats.
***Salix BABYLONICA**, Tourn. Weeping Willow. Planted for ornament. May, June.
Populus tremuloides, Mx. American Aspen. Ravines and woods. May.

*There are doubtless other species, but they are omitted because undetermined.

- Populus grandidentata**, Mx. Large-toothed Aspen. Woods. May.
Populus balsamifera, L., var. *candicans*, Gray. Balm of Gilead.
 Mohawk flats. Commonly cultivated. May, June.
Populus dilatata, Ait. Lombardy Poplar. Roadsides near old farm
 houses. Mohawk flats. May.
Populus alba, L. White Poplar. Roadsides. Mohawk flats. May.

MONOCOTYLEDONS.

Orchidaceæ—Orchis Family.

- Orchis spectabilis**, L. Showy Orchis. Rich woods, ravine-sides.
 Latter part of May.
Spiranthes latifolia, Torr. Ladies' Tresses. Wet places at Oriskany,
 both sides of the Mohawk. Early in June.
Listera cordata, R. Br. Tway Blade. Swamp on Mohawk flats.
 Schuyler. Early in June.
Corallorhiza innata, R. Br. Coral Root. Swamps, Frankfort,
 Schuyler, Whitestown. Early in June.
Aplectrum hiemale, Nutt. Adam and Eve. Putty Root. Rich
 soil in woods, Deerfield, New Hartford. A few plants in woods two
 and one-half miles South of Utica. Early in June.
Cypripedium pubescens, Willd. Moccasin Flower. Larger Yellow
 Lady Slipper. Swamps, Frankfort, New Hartford, Whitestown,
 Schuyler. Last half of May.
Cypripedium parviflorum, Salisb. Smaller Yellow Lady's Slipper.
 Swamps, Frankfort, New Hartford, Whitestown, Schuyler. Last of
 May or early in June.
Cypripedium acaule, Ait. Stemless Lady's Slipper. Sphagnum
 swamps, Frankfort, Whitestown. May or early in June.

Iridaceæ--Iris Family.

- Iris versicolor**, L. Blue Flag. Wet meadows and swamps. May and
 June.
Sisyrinchium anceps, L. Blue-eyed Grass. Meadows. May to
 August.

Liliaceæ—Lily Family.

- Trillium erectum**, L. Stink Pot. Purple Birthroot. Woods and
 ravines. Flower occasionally, dull yellow. April or early in May.
Trillium erectum, L., var. *album*, Ph. White Birthroot. Thickets
 along the Mohawk. Middle of May.
Trillium grandiflorum, Salisb. Wake Robin. Large White Tril-
 lium. Shady hillsides. Wet woods. Cedar swamps. Early in May.
Trillium erythrocarpum, Mx. Painted Trillium. Shady woods.
 Brows of ravines. Utica, Deerfield, Whitestown, Frankfort, Marcy.
 Middle of May.
Medeola Virginiana, L. Indian Cucumber. Rich woods. Middle of
 June.
Asparagus officinalis, L. Garden Asparagus. Mohawk flats ; along
 streams near reservoir. May.
Polygonatum biflorum, Ell. Solomon's Seal. Ravines and woods.
 Middle of May.

- Smilacina racemosa**, Desf. False Spikenard. Ravine-sides and borders of woods. May or early in June.
- Smilacina stellata**, Desf. Mohawk flats. Woods along the old Chango canal. May or June.
- Smilacina trifolia**, Desf. Sphagnum swamps, Frankfort, Whites-town. Last of May, June.
- Maianthemum Canadense**, Desf. Woods and ravines. May or early in June.
- Uvularia grandiflora**, Sm. Large-flowered Bellwort. Ravines and wet woods. April and May.
- Uvularia perfoliata**, L. Mealy Bellwort. Ravines in Deerfield. Rich woods on Frankfort Hill. Rare. Middle of May.
- Oakesia sessifolia**, Watson. Wild Oats. Woods and ravines. April and May.
- Streptopus roseus**, Mx. Twisted Stalk. Ravines and rich woods. May.
- Clintonia borealis**, Raf. Wild Lily of the Valley. Swamps, ravines and rich woods. May.
- Erythronium Americanum**, Sm. Dog's Tooth Violet. Yellow Adder's Tongue. Ravines and woods. April or May.
- Ornithogalum UMBELLATUM**, L. Star of Bethlehem. Escaped from cultivation. Last of May, June.
- Allium tricoccum**, Ait. Wild Leek. Ravines and woods. Leaves in May, flowers in June or July.
- Allium Canadense**, Kalm. Wild Garlic. In thickets along the Mohawk. Early in June.

Juncaceæ—Rush Family.

- Luzula pilosa**, Willd. Wood, Hairy Rush. Ravine-sides, Oriskany. Not common. Last of May.
- Luzula campestris**, DC. Field Rush. Dry woods. Uncommon. Last of May.

Araceæ—Arum Family.

- Arisæma triphyllum**, Torr. Indian Turnip. Jack in the Pulpit. Ravines and rich woods. April or May.
- Acorus Calamus**, L. Sweet Flag. Swampy places, cold streams. Second week in June.
- Calla palustris**, L. Wild Calla. Bogs, Frankfort and Graefenberg hills. May to August.
- Symplocarpus foetidus**, Salisb. Skunk Cabbage. Swamps, Mohawk flats. March to May.

Naiadaceæ—Pond-Weed Family.

- Scheuchzeria palustris**, L. Scheuchzeria. Bogs, Frankfort, Whitestown. Not common. May, fruit in June.

Cyperaceæ—Sedge Family.

Time given is for fully developed perigynia.

- Carex arctata**, Boott. Ravine sides and woods. First half of June.
- Carex bromoides**, Schk. Wet places. Last of May or early in June.
- Carex cephalophora**, Muhl. Mohawk flats in Marey. Scarce. Last of May.
- Carex filiformis**, L., var. *latifolia*, Boeckl. Border of cultivated grounds near Yorkville. Last of May.
- Carex granularis**, Muhl. Meadows on Mohawk flats. Early in June.

Carex laxiflora, Lam. Meadows, wet woods, ravines, etc. Very common and variable. The following varieties have been detected: *intermedia*, Boott., *latifolia*, Boott., *patulifolia*, Carey., *striatula*, Carey. First week in June.

Carex pallescens, L. Meadows on Mohawk flats. Early in June.

Carex pedunculata, Muhl. Ravines. First half of May.

Carex Pennsylvanica, Lam. Sandy hillsides and woods, Whites-town, First week in June.

Carex plantaginea, Lam. Ravines. Middle of May.

Carex pubescens, Muhl. Flats of Starch Factory Creek. Mohawk flats. Second week in June.

Carex Schweinitzii, Dew. Swampy places and ditches, at Oriskany, east of the creek. Abundant S. W. of the Central Depot. Second week in June.

Carex stipata, Muhl. Wet places. First of June.

Carex tenella, Schk. (C. disperma, Dew.) Arbor vitæ swamps. Early in June.

Carex umbellata, Schk. Sandy hillsides and woods, Whitestown. Last of May.

Carex varia, Muhl. Ravines and woods. First half of June.

Gramineæ--Grass Family.

Oryzopsis asperifolia, Mx. Mountain Rice. Sandy hillsides, Whitestown, Frankfort. May, June.

Dactylis GLOMERATA, L. Orchard Grass. Roadsides and fields. May and June.

Poa ANNUA, L. Low Spear Grass. Waste places, cultivated grounds. April to October

Poa pratensis, L. Kentucky Blue Grass. June Grass. Pastures and meadows. May to August.

Festuca nutans, Willd. Nodding Fescue. Woods. Last of May to July.

Anthoxanthum ODORATUM, L. Sweet Vernal Grass. Pastures and roadsides. May, June.

Avenastriata, Mx. Oat. Rich woods, New Hartford. Early in June.

GYMNOSPERMS.

Coniferæ — Pine Family.

Pinus Strobus, L. White Pine. Formerly abundant, now scarce in this region. May or June.

Larix Americana, Mx. Tamarack. Mohawk flats. Frankfort Hill. May or June.

Picea alba, Link. White Spruce. Frankfort Hill. Scarce. May or June.

Picea nigra, Link. Black Spruce. Frankfort and Graefenberg Hills. May or June.

Tsuga Canadensis, Carr. Hemlock. Ravines, woods and swamps. May or June.

Abies balsamea, Marsh. Balsam Fir. Mohawk flats. Frankfort and Graefenberg Hills. May or June.

Thuja occidentalis, L. Arbor Vitæ. White Cedar. Swamps. May.

Taxus baccata, L., var. *Canadensis*, Gray, American Yew. Ground Hemlock. Ravine-sides and woods. April or May.

CRYPTOGAMIA.

VASCULAR CRYPTOGRAMIA.

Equisetaceæ—Horse-Tail Family.

- Equisetum arvense**, L. Common Horse-tail. Damp grounds, along streams and railroads. April or May.
- Equisetum hyemale**, L. Scouring Rush. Wet banks and hill-sides. First half of May.
- Equisetum sylvaticum**, L. Woodland Horse-tail. Damp woods and cedar swamps. Middle of May.
- Equisetum variegatum**, Schleich. Wet banks of Oriskany creek opposite the burnt factory. Rare. Last of May or early in June.
- Equisetum scirpoides**, Mx. Swamps near Utica. Rare. Last of May or early in June.

Filices—Fern Family.

- Osmunda cinnamomea**, L. Cinnamon Fern. Swampy ground. The var. *frondosa*, is scarce. Last of May or early in June.
- Osmunda Claytoniana**, L. Clayton's Flowering Fern. Moist ground. Last of May or early in June.

NOTE—Naturalized and adventive plants in small capitals.

85



... ..

... ..

... ..

... ..

... ..

... ..

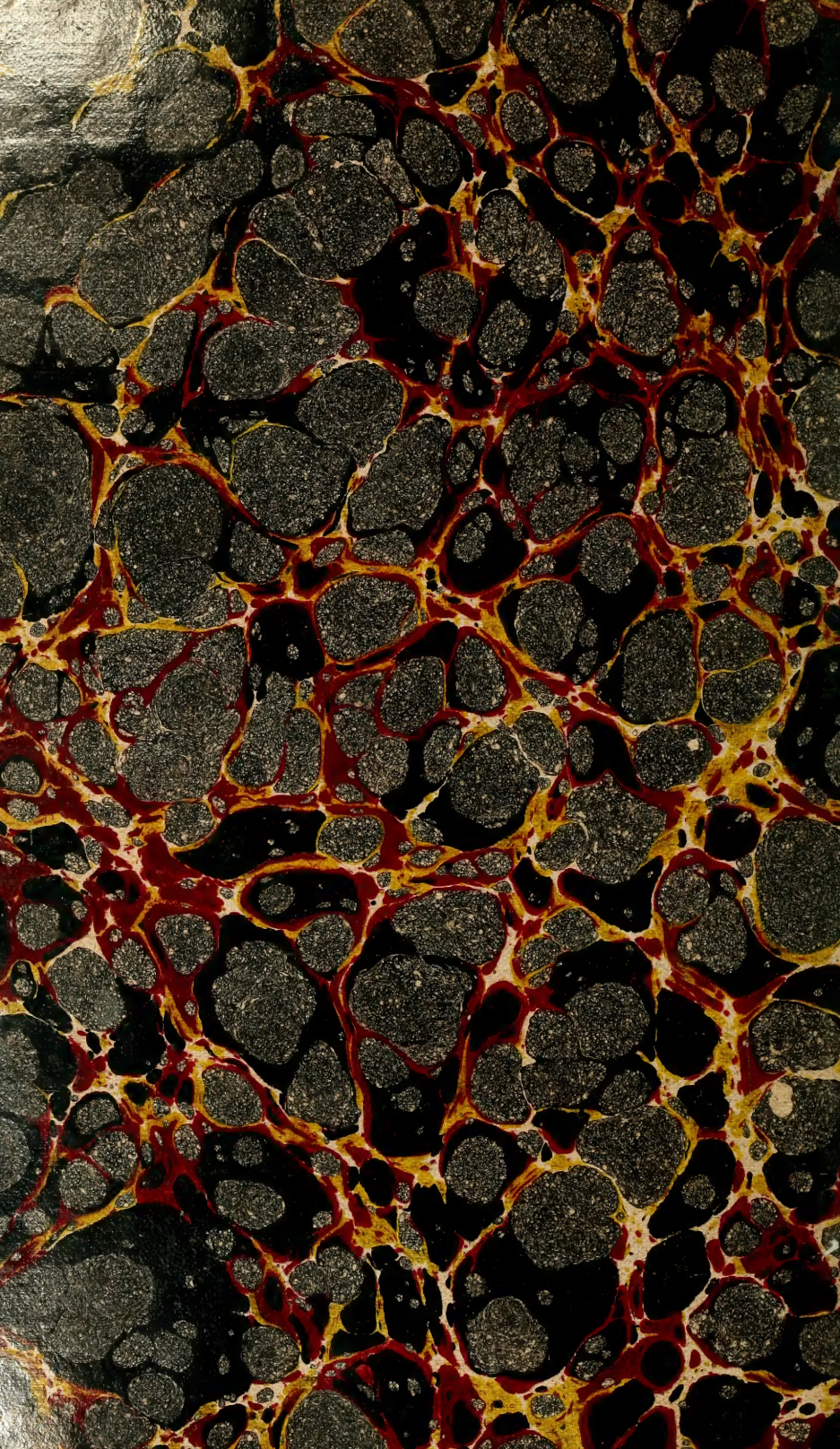
... ..

... ..

... ..

... ..





New York Botanical Garden Library

QK 2.5 .OB v. 221 gen
Burgess, Edward San/The Chautauqua flora



3 5185 00158 0313

